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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**

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

**COURSE SYLLABUS**

**Internal Medicine**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course “Internal Medicine” is to equip students with the knowledge of knowledge about the professional skills of examining a patient on the basis of studying the main symptoms and syndromes of internal diseases, clinical and additional methods of research, mastering the methodology of diagnosis and treatment principles, also the formation of their professional medical and general cultural competence in matters of the structural organization of the basic processes of vital activity of the organism.

## 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.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-5	Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing the patient’s complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.
		GPC-5.4. Referring a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of dental care.
		GPC-5.5. Referring a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards.
		GPC-5.6. Referring a patient for a consultation with medical specialists in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care taking into account the standards.
		GPC-5.7. Referring a patient to be provided with specialized medical care in an inpatient conditions or in a day hospital in case there are medical indications in accordance with the

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of dental care.</p> <p>GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.</p> <p>GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.</p>
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	<p>GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p> <p>GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.</p> <p>GPC-6.3. Assessing the possible side effects of taking medicinal drugs.</p> <p>GPC-6.4. Providing medical care to a dental patient in emergency or urgent forms.</p> <p>GPC-6.5. Organizing the prevention and treatment of complications, side effects, undesirable reactions, including the unforeseen ones, which can arise from diagnostic or medicinal manipulations, use of drugs and (or) medical devices, non-drug treatment at a dental appointment.</p> <p>GPC-6.6. Organizing personalized treatment of a dental patient, including elderly and senile patients, pregnant women, children with somatic pathologies; evaluating the efficacy and safety of treatment.</p> <p>GPC-6.7. Prescribing medicinal drugs, 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 guidelines (treatment protocols) on the provision of medical care taking into account medical care standards.</p> <p>GPC-6.8. Prescribing non-drug treatment taking into account the diagnosis, age and disease pattern in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		care taking into account the medical care standards.
		GPC-6.9. Evaluating the efficacy and safety of using medicinal drugs, medical devices and other methods of treatment at a dental appointment.

### 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-5	Being able to examine patients to determine a diagnosis when solving professional tasks	Biology, Histology, Embriology, Anatomy	Pediatrics, Neurology, Infectious Diseases, Phthisiology
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Biology, Histology, Embriology, Anatomy	Pediatrics, Neurology, Infectious Diseases, Phthisiology

\* 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

Type of academic activities		Total academic hours	Semesters/training modules		
			5	6	7
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>		67	22	15	6
<i>Evaluation and assessment (exam/passing/failing grade)</i>		39	18	3	18
<b>Course workload</b>	academic hours	252	93	78	81
	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
Module 1 Methods of physical examination of the patient	General condition, consciousness, position, build, assessment of the skin and mucous membranes, lymph nodes, muscular system, joints (4 hours).	S
Module 2 Case history. Questioning the patient. General examination of the patient.	Case history writing scheme (4 hours).	S
Module 3 Methods for the study of respiratory organs	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Basics of private pathology (pneumonia, COPD, bronchial asthma) (4 hours).	S
Module 4 Methods of study of the circulatory system	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (AH, CHD, NC, Atherosclerosis, rheumatism, defects) (32 hours).	S
Module 5 Methods of study of the digestive system	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (gastritis, ulcers, bowel disease) (8 hours).	S
Module 6 Methods for the study of the liver and biliary tract	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (hepatitis, cirrhosis, cholecystitis, JCB) (8 hours).	S

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
Module 7 Methods of examination of the kidneys and urinary tract	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. The basics of private pathology (pyelonephritis, glomerulonephritis, chronic renal failure, acute kidney injury) (8 hours).	S
Module 8 Methods for examining the blood-forming organs	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Basics of private pathology (anemia, leukemia) (17 hours).	S
Module 9 Endocrine Research Methods	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (thyroid disease, diabetes) (6 hours).	S
Module 10 Respiratory diseases	Etiology, pathogenesis, features of clinical manifestations and complications of lung diseases; principles of treatment of pulmonary pathology (pneumonia, COPD, bronchial asthma, lung cancer, tuberculosis)	S
Module 11 Diseases of the circulatory system	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of heart and vascular diseases; principles of treatment of cardiac pathology (rheumatism, heart defects, infective endocarditis, ischemic heart disease, ox, cardiomyopathy, arterial hypertension, cardiac arrhythmias, heart failure, ECG, echocardiography)	S
Module 12 Kidney disease	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)	S
Module 13 Diseases of the endocrine system	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of thyroid diseases, diabetes mellitus; principles of treatment.	S
Module 14 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 intestines, acute and chronic hepatitis, cirrhosis of the liver)	S

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
Module 15 Diseases of the blood	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of blood diseases; principles of treatment (anemia, acute and chronic leukemia)	S
Module 16 Diseases of the joints	Etiology, pathogenesis, clinical picture, diagnosis, complications, treatment (gout, osteoarthritis deformans, rheumatoid arthritis, ankylosing spondylitis, reactive and paraneoplastic arthritis)	S

\* - 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*

<b>Type of academic activities</b>	<b>Classroom equipment</b>	<b>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</b>
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	List of specialised laboratory equipment, machinery, stands, etc.
Seminar	A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations.	List of specialised equipment, stands, visual posters, etc.
Computer Lab	A classroom for conducting classes, group and individual consultations, current and mid-term assessment, equipped with personal computers (in the amount of ___ pcs), a board (screen) and technical means of multimedia presentations.	List of specialised software installed on computers for mastering the discipline
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

## **7. RESOURCES RECOMMENDED FOR COURSE STUDY**

*Main readings:*

1. Internal diseases I-II volumes. Editors in chief: Martynov A.I., Kobalava Zh.D., Moiseev S.V. 2021, Moscow, GEOTAR.
2. Fundamentals of Internal Medicine. A guide in 2 volumes for doctors. Chief editors: Moiseev VS, Kobalava ZhD, Maev IV, Kaprin AD, Gusev EI, Shestakova MV, Moiseev SV. Moscow: LLC "Medical Information Agency", 2020. 688 pages.
3. Propedeutics of internal diseases under the editorship of V.S.Moiseev, N.A.Mukhin. Geotar-Media. P. 532,-2013.
4. Essentials of diagnostics of internal diseases under the editorship of Z.D.Kobalava. M.- PFUR, 326 p.-2011
5. V.S.Moiseev, S.V.Moiseev, Z.D.Kobalava. under the editorship of V.S.Moiseev. Internal diseases with introduction into evidence-based medicine and clinical pharmacology. Under the editorship of V.S.Moiseev.2008. Geotar-Media. P. 832. 104 P.
6. V.S.Moiseev, S.V.Moiseev, Z.D.Kobalava. Heart diseases. M. Medical informative agency.2008. 528P.
7. Z.D.Kobalava, Y.V. Kotovskaya, V.S.Moiseev. Arterial hypertension; diagnosis and treatment. M: Geotar-Media. 2009. 864P
8. Kobalava Zh.D., Troitskaya E.A. (and etc.). Diseases of the circulatory system. RUDN University Publishing House, Moscow. 2020 - 54s
9. Kobalava Zh.D., Shavarova E.K. (and etc.). Respiratory diseases. RUDN University Publishing House, Moscow. 2020 - 120 p.
10. Kobalava Zh.D., Bagmanova N.Kh. (and etc.). Diseases of the gastrointestinal tract. RUDN University Publishing House, Moscow. 2020 - 90 p.
11. Kobalava Zh.D., Efremovtseva M.A. (and others). Kidney disease. RUDN University Publishing House, Moscow. 2020 - 38 p.
12. Kobalava Zh.D., Khasanova E.R. (and etc.). Diseases of the endocrine organs. RUDN University Publishing House, Moscow. 2020 - 54s.
13. Kobalava Zh.D., Troitskaya E.A. (and etc.). Diseases of the hematopoietic organs. RUDN University Publishing House, Moscow. 2020 - 45 p.
14. Kobalava Zh.D., Markova M.A. (and etc.). Workshop on propaedeutics of internal diseases. RUDN University Publishing House, Moscow. 2016 - 176 p.
15. Kobalava Zh.D., Villevalde S.V. (and etc.). Diagnosis and its rationale. RUDN University Publishing House, Moscow. 2017 - 188 p.
16. Kobalava Zh.D., Safarova A.F. Clinical ECG. RUDN University Publishing House, Moscow. 2017 - 112 p.
17. Internal diseases. Key points. Editors in chief Kobalava Zh.D., Moscow, GEOTAR. P.656-2022.

*Additional readings:*

1. Kobalava Zh.D., Lazarev P.V., Kotova E.O. Internal medicine in clinical observations. Internal medicine in clinical observations: selected / team of authors; ed. Zh.D. Kobalava. - Moscow: RUDN, 2020.-- 708 p.: Ill.
2. S.V. Velmakin, S.A. Galochkin, E.A. Troitskaya, R.A. Osipyants, N.Kh. and other Propedeutics of internal diseases. Study guide for practical training. Ed. Kobalava Zh.D .. - Moscow: RUDN, 2019.-51s.
3. Kobalava Zh.D., Konradi A.O., Nedogoda S.V., Shlyakhto E.V. and other Arterial hypertension in adults. Clinical guidelines 2020. Russian journal of cardiology. 2020; 25 (3): 3786 Cnh 149-218.
4. Mareev V.Yu., Gilyarevsky S.R., Mareev Yu.V., Begrambekova Yu.L., Belenkov Yu.N., Kobalava Zh.D., et al. Consensus opinion of experts on the role of iron deficiency in patients with chronic heart failure, as well as modern approaches to its correction. Cardiology. 2020; 60 (1): 99-106.



5. Hoang Ch.Kh., Lazarev P.V., Maiskov V.V., Merai I.A., Kobalava Zh.D. Myocardial infarction without coronary artery obstruction: modern approaches to diagnosis and treatment. *Rational Pharmacotherapy in Cardiology* 2019; 15 (6): 881-891.
6. Kobalava Zh.D., Villevalde S.V., Efremovtseva M.A. (under the editorship of Zh.D. Kobalava, V.S. Moiseev). *Fundamentals of cardiorenal medicine. Monograph. Moscow, GEOTAR-Media. 2014* .-- 256 p.
7. Kobalava Zh.D., Troitskaya E.A. Asymptomatic hyperuricemia and the risk of developing cardiovascular and renal diseases. *Cardiology*. 2020; 60 (10): 113–121, SCOPUS Q4.
8. Avdoshina S.V., Bagmanova N.Ch., Troitskaya E.A. and other. *Methodological recommendations for practical trainings on propaedeutics of internal diseases. Editors in chief Kobalava Zh.D. RUDN University Publishing House, Moscow. 2022-132 p.*
9. Avdoshina S.V., Bagmanova N.Ch., Troitskaya E.A. and other. *Control questions for practical trainings propaedeutics of internal diseases. Editors in chief Kobalava Zh.D. RUDN University Publishing House, Moscow. 2022-102 p.*

### *Internet sources*

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation 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/>

1) Simulators with the ability to simulate various variants of clinical scenarios for practicing patient examination skills, formulating a preliminary diagnosis, therapeutic approaches.

- Software: Cardionics SAMII

2) Anatomical models of various organ systems. Used to visualize the development of the pathological process in the body of interest and its influence on the data obtained during the inspection.

3) The system of interactive survey to assess the quality of mastering the material. Used after lectures, workshops, on colloquiums. Each student can get acquainted with the results of his answers using the department portal.

- Software: Turning Technologies

4) LCD panels in most classrooms, multimedia projectors. Used to demonstrate educational material. Have the ability to wirelessly connect to data sources (laptop, tablet), the Internet.

- Software: Windows, Office 365 software package

5) A library of images with signs of various pathologies (updated by members of the department), descriptions of clinical cases, electrocardiograms. Available to every teacher, student through the relevant sections of the department portal.

*Training toolkit for self- studies to master the course* \*:

1. The set of lectures on the course “Internal Medicine”

*Training toolkit for self- studies to master the course* \*:

1. The set of lectures on the course “Internal Medicine”.
2. The laboratory workshop (if any) on the course “Internal Medicine”.
3. The guidelines for writing a course paper / project (if any) on the course “Internal Medicine”.
4. ....

## **8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION**

The assessment toolkit and the grading system\* to evaluate the competences formation level (GPC-5, GPC-6) upon the course study completion are specified in the Appendix to the course syllabus.

\* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

### **DEVELOPERS:**

Assistant professor of the  
Department of Internal Medicine  
with a course of cardiology and  
functional diagnostics

S. V. Avdoshina

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position, department

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signature

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name and surname

### **HEAD OF EDUCATIONAL DEPARTMENT:**

of Internal Medicine  
with a course of cardiology and  
functional diagnostics

Zh. D. Kobalava

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name of department

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signature

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name and surname

### **HEAD OF HIGHER EDUCATION PROGRAMME:**

First Deputy Director of Medical  
Institute for academic affairs

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position, department

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signature

S.N. Razumova

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name and surname