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ФИО: Ястребов Олег Александрович  
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**Federal State Autonomous Educational Institution of Higher Education**  
**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA**  
**RUDN University**  
**Institute of Medicine**

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

## **COURSE SYLLABUS**

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Faculty Therapy

course title

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

31.05.01 General Medicine

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field of studies / speciality code and title

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

General Medicine

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course “Faculty Therapy” is to equip students with knowledge of 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) “Faculty Therapy” is aimed at the development of the following competences /competences in part: GP-1, GPC-8, PC-2, PC-3, PC-21.

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
GP-1	be able to use academic, scientific, non-fiction literature, internet resources for training	GP-1 Students should be able to use academic, scientific, non-fiction literature, internet resources for training
GPC-8	Be able to take part in providing with prophylactic and anti epidemic support to people	GPC-8 Students should be able to take part in providing with prophylactic and anti epidemic support to people
PC-2	Be able to determine status of the patient: take anamnesis, interview the patient or his relatives, perform physical examination (general assessment, palpation, percussion, auscultation, measuring of blood pressure, feeling pulse, etc);	PC-2 Students should be able to determine status of the patient: take anamnesis, interview the patient or his relatives, perform physical examination (general assessment, palpation, percussion, auscultation, measuring of blood pressure, feeling pulse, etc);
PC-3	Be able evaluate the patient's condition for making a decision on the need to provide him with medical care;	PC-3 Students should be able to evaluate the patient's condition for making a decision on the need to provide him with medical care;
PC-21	Be able to conduct a primary examination of systems and organs; set	PC-21 Students should be able to to conduct a primary examination of systems and organs; set priorities to solve patient healthproblems: critical (terminal) state, condition with pain, condition with chronic disease, infectious disease condition,

Competence code	Competence descriptor	Competence formation indicators (within this course)
	priorities to solve patient health problems: critical (terminal) state, condition with pain, condition with chronic disease, infectious disease condition, disablement, geriatric problems, state of mentally sick patients;	disablement, geriatric problems, state of mentally sick patients;

### 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	The competence	Previous Disciplines	Subsequent disciplines
PC-5		Normal physiology Biochemistry	Faculty Therapy Hospital therapy Phtisiology Pediatrics Neurology Otholaryngology Immunology
PC-6		Normal physiology Biochemistry	Faculty Therapy Hospital therapy Phtisiology Pediatrics Neurology Otholaryngology Immunology
PC-8		Normal physiology Biochemistry	Faculty Therapy Hospital therapy Phtisiology Pediatrics Neurology Otholaryngology Immunology

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Faculty Therapy” is 8 credits (288 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	
		VII	VIII
<i>Contact academic hours</i>			
<b>Including:</b>			
Lectures (LC)	66	34	32
Lab work (LW)			
Seminars (workshops/tutorials) (S)	168	72	96

Type of academic activities		Total academic hours	Semesters/training modules	
			VII	VIII
<i>Self-studies</i>		16	8	8
<i>Evaluation and assessment (exam/passing/failing grade)</i>				
<b>Course workload</b>	academic hours	288	180	108
	credits	8	<b>5</b>	<b>3</b>

## 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
<b>Module 1</b> <b>The respiratory system</b>	Acute and chronic bronchitis. Etiology, pathogenesis, classification, clinical findings, complications. Defense mechanisms of the respiratory system. The role of smoking in the development of lung and heart diseases. The meaning of spirometry in the diagnosis of respiratory failure. Acute pneumonia. Etiology, pathogenesis, classification. Atypical pneumonia. Microorganisms. Particularity in progression. Lung abscess. Bronchiectasis. Pleuritis. Etiology. Diagnosis. The significance of pleural tapping. Treatment. Bronchial asthma. Classification, particularity in progression, treatment of different types of bronchial asthma. Status asthmaticus. Chronic obstructive pulmonary diseases. Pulmonary hypertension. Causes, clinicals, treatment. Chronic cor pulmonale. Etiology, pathogenesis, clinical findings, diagnosis, complications, treatment. Rheumatism. Etiology, pathogenesis, Particularity in haemodynamics in various malformations. The meaning of streptococcal infections.	LC, S
<b>Module 2</b> <b>Cardiovascular system</b>	Diagnosis of heart malformations. Particularities of heart sounds and murmurs in malformations. Treatment and prophylaxis of rheumatism. Acquired heart malformations. Diagnosis. Treatment. Infective endocarditis. Classifications. Etiology, pathogenesis, clinical findings. Particularities of cardiac lesions .Particularities in the progression of infective endocarditis. Treatment, the use of antibacterial therapy and surgical methods in treatment. Cardiomyopathy. Etiology. Classification. Clinical findings in dilated, hypertrophic, restrictive cardiomyopathy. Medical treatment. Role of heart	LC, S

Course module title	Course module contents (topics)	Academic activities types
	<p>transplantation. Hypertension. Etiology, pathogenesis, clinical findings. Understanding of different types of clinical features of hypertension. Risk factors. Classification. Prophylaxis. Treatment. Atherosclerosis Etiology and pathogenesis. The role of atherosclerosis in ischaemic heart disease. Ischaemic heart disease. Risk factors. Clinical findings. Angina pectoris. Classification. The role of coronarography in diagnosis. Medical treatment of angina. Role of surgical methods of treatment. Aortocoronary shunts, balloon angioplasty, stenting. Myocardial infarction. Pathogenesis. Clinical findings, complications. Treatment. The understanding of acute coronary syndrome. Indications and contraindications in the use of the drugs and their side effects. ECG. Their role in the diagnosis of cardiovascular diseases. Arrhythmias and conduction defects. Diagnosis. Clinical importance. Treatment. Main groups of antiarrhythmic drugs. Indications and contraindications in the use of the drugs in different types of arrhythmias. Indications for cardiostimulation.</p>	
<b>Module 3 Liver diseases</b>	<p>Main clinical findings. Cytolysis (hepatocyte damage), cholestasis, jaundice, liver synthetic dysfunction, portal hypertension, hypersplenism. Acute and chronic hepatitis. Etiology, pathogenesis. Clinical findings. The role of viral hepatitis. Antiviral therapy. Indications and contraindications, complications. Liver cirrhosis. Classification. Etiology, pathogenesis. Clinical findings. Treatment, liver synthetic dysfunction. Pathogenesis, clinical findings. Medicated and non-medicated treatments. Alcoholic disease. Visceral manifestations. Pathogenesis. Clinical findings, diagnosis, complications, treatment. Stigmata of chronic alcoholic intoxication. Primary biliary cirrhosis. Etiology, pathogenesis. Clinical findings, treatment. Haemochromatosis, Wilson`s disease. Etiology, pathogenesis. Clinical findings, diagnosis, treatment. Portal hypertension. Clinical findings, complications, treatment.</p>	LC, S
<b>Module 4 Renal medicine</b>	<p>Main clinical findings.: acute nephritis, urinary, hypertonic, nephrotic, urinary infections, acute renal failure. Acute and chronic glomerulonephritis. Etiology , pathogenesis. Clinical findings. Clinical and morphological classification of chronic glomerulonephritis. Treatment. Proliferative</p>	LC, S

Course module title	Course module contents (topics)	Academic activities types
	glomerulonephritis. Clinical findings, treatment. Amyloidosis. Etiology. Pathogenesis. Classification. Clinical findings. Visceral manifestation of amyloidosis. The role of biopsy in the diagnosis of amyloidosis. Chronic renal failure. Etiology pathogenesis, clinical and laboratory findings, diagnosis, complications, treatment. Understanding of haemodialysis. Indications and contraindications in their use. The role of kidney transplantation in the treatment of renal failure.	
<b>Module 5 Haematology</b>	Anaemia. Classification. Microcytic, macrocytic, normocytic, anaemia. Normochromic, hyper- and hypochromic anaemia. Etiology, clinical findings. Treatment. Megaloblastic anaemia. Etiology, diagnosis, treatment. Haemolytic anaemia. Etiology, principles of diagnosis, treatment. Aplastic anaemia. Etiology. Diagnosis, treatment. Acute and chronic leukemia Etiology, pathogenesis, clinical findings, diagnosis, complications, treatment. The role of bone marrow transplantation. Schema of cytotoxic(cytostatic) drugs. Myeloma. Pathogenesis clinical and laboratory findings. Principles of treatment. Hodgkin`s disease. Clinical findings. Principle of treatment.	LC, S
<b>Module 6 Endocrinology</b>	Toxic multinodular goitre. Hypothyroidism. Etiology, pathogenesis. Clinical findings. Laboratory findings. Medical treatment. Indication for surgical treatment. Diabetes mellitus. Etiology, pathogenesis. Classification. Clinical findings, diagnosis, complication, treatment. Hyperglycaemic, hypoglycaemic, hyperosmolar coma. Differential diagnosis. Clinical findings. Treatment. 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).	LC, S
<b>Module 7 Rheumatology</b>	Rheumatoid arthritis. Etiology, pathogenesis,. Clinical findings. Articular and extra-articular findings. Classification. Laboratory findings. Treatment. Drug treatment in rheumatoid arthritis. NSAID. Groups. Side effects and their prophylaxis. Osteoarthritis. Ankylosing spondylitis. Reiter`s syndrome. Etiology, pathogenesis, clinical findings, diagnosis, complications, treatment.	LC, S

Course module title	Course module contents (topics)	Academic activities types
<b>Module 8 Metabolic dysfunction</b>	Gout. Classification. Clinical findings, laboratory diagnosis. Alcoholism. Etiology, pathogenesis, clinicals, complications, treatment.	LC, S

## 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)
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. Workshop on propedeutics of internal diseases [Text]: A textbook for students of 2-3 courses of the medical faculty of specialties "General Medicine", "Dentistry" / Yu.V. Kotovskaya [et al.]; Ed. J.D. Kobalava - M.: RUDN Publishing House, 2018. - 175 p. –
2. Diseases of the digestive organs and the liver: syndromes, key moments and clinical tasks [Text]: Educational and methodical manual on the propaedeutics of internal diseases for students of 2-3 courses of the medical faculty of specialties "medical business", "Dentistry" / S.V

### *Additional reading:*

1. The main syndromes in the clinic of internal diseases. Teaching manual. Compiled by: Edited by Kobalava Z.D. Ed. RUDN 2008. 20 p.



2. Kobalava J.D., Moiseev S.V., Moiseev V.S. Basics of internal medicine. A guide for doctors. –M., GEOTAR-Media. 2014. - 888 s.
  
3. Kobalava Z.D., Kotovskaya Yu.V. Hypertension in the XXI century: achievements, problems, prospects. RF, Moscow, Bionics. 2013. - 17 p.
  
4. Kobalava J.D., Villevalde S.V., Efremovtseva M.A. (Ed. by J.D. Kobalava, V.S. Moiseev). Basics of cardiorenal medicine. Monograph. Moscow, GEOTAR-Media. 2014. - 256 p.
  
5. Klimenko A.S., Merai I.A., Avdoshina S.V. Acute cardiorenal and renocardial syndromes. Monograph. Moscow, GEOTAR-Media 2014.- 21 p.

***Additional readings:***

***Printed publications:***

1. 1. Mukhin N.A. Propedeutics of internal diseases [Text]: Textbook / N.A. Mukhin, V.S. Moses. - 2nd ed., Ext. and recycled. - M.: GEOTAR-Media, 2019. - 848 p. : il. - application: CD ROM. - ISBN 978-5-9704-2769-9.
2. Diseases of the endocrine organs: syndromes, key points and clinical tasks [Text / electronic resource]: Teaching guide on internal diseases propaedeutics for students of 2-3 courses, studying in the specialty "General Medicine", "Dentistry" / S.V. . Villevalde [et al.]. - Electronic text data. - M.: RUDN Publishing House, 2016. - 48 p. - ISBN 978-5-209-07227-0: 22.29. 54.15 - 3-12
3. Diseases of the digestive organs and the liver: syndromes, key moments and clinical tasks [Text]: Educational and methodical manual on the propaedeutics of internal diseases for students of 2-3 courses of the medical faculty of specialties "medical business", "Dentistry" / S.V.

Villevalde [et al.]; Ed. Zh.D.Kobalova. - M.: Publishing house of RUDN, 2016. - 91 p. : il.  
- ISBN 978-5-209-07661-2: 35.70.

54.13 - 3-12

4. Diseases of the circulatory system: syndromes and clinical tasks [Text]: Teaching guide on internal diseases propaedeutics for 3-year students of the medical faculty of the specialty "General Medicine", "Dentistry" / Yu.V. Kotovskaya [et al.]; Ed. Z.D.Kobalava. - M.: Publishing house of RUDN, 2016. - 89 p. : il. - ISBN 978-5-209-07401-4: 43.39. 54.10 - 3-12

### *Internet (based) sources*

- 1. Electronic libraries with access for RUDN students:
  - Electronic library network of RUDN – ELN RUDN <http://lib.rudn.ru/MegaPro/Web>
  - ELN «University Library online» <http://www.biblioclub.ru>
  - ELN Urait <http://www.biblio-online.ru>
  - ELN «Student Advisor» [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - ELN «Lan» <http://e.lanbook.com/>
  
- 2. Databases and search engines:
  - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
  - search system Yandex <https://www.yandex.ru/>
  - search system Google <https://www.google.ru/>
  - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

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

1. The set of lectures on the course "Faculty Therapy"

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

## **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 (GP-1, GPC-8, PC-2, PC-3, PC-21) 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 of the Department of  
Internal Medicine

Goreva L.A.

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with a course of cardiology and  
functional diagnostics

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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

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position, department

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signature

Kobalava Zh. D.

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name and surname

**HEAD**

**OF HIGHER EDUCATION PROGRAMME:**

First Deputy Director of MI for  
Academic Affairs

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position, department

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signature

Radysh I. V.

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name and surname