

**Federal State Autonomous Educational Institution higher education  
"Peoples' Friendship University of Russia"**

**Medical Institute**

Recommended by ISSC

**WORKING PROGRAMM  
TEACHING PRACTICE**

**Recommended for training of highly qualified personnel  
to direct training**

31.06.01 Clinical medicine

**Profile**

14.01.04 Internal disease: heart failure

**Qualification (degree) of the graduate:**

Researcher. Research instructor

## **1. The goals of teaching practice**

The goals of teaching practice are:

- consolidation in practice of knowledge, skills and practical skills acquired by students in direction 31.06.01 Clinical Medicine, profile 14.01.04 Internal disease: heart failure (higher education - training of highly qualified personnel);
- preparation for the implementation of pedagogical activities in the system of higher professional and additional education;
- consolidation and formation of skills in methodological development and analysis of the main forms of educational and extracurricular activities in cardiology; explanations, development and control of knowledge on diseases of the cardiovascular system; organization of educational work with students; development and improvement of the curriculum in direction 31.06.01 Clinical Medicine, profile 14.01.04 Internal disease: heart failure (higher education - training of highly qualified personnel);

## **2. Tasks of teaching practice**

The tasks of pedagogical practice are to prepare graduate students for the implementation of the following types of pedagogical activities:

- determination of the content, forms and technologies of education in the system of higher and additional education;
- systematic design of educational material, design of training sessions, organization of communications and interaction in educational groups;
- evaluation and control of the effectiveness of teaching clinical disciplines.

## **3. The place of teaching practice in the structure of OOP**

"Pedagogical practice" of graduate students belongs to the variable part of Block 2 "Practices" of the OOP. The scope of "Pedagogical practice" is 24 credit units, 864 hours.

Students in direction 31.06.01 Clinical Medicine, profile 14.01.04 Internal disease: heart failure (higher education - training of highly qualified personnel) undergo teaching practice in 2-5 semesters of study. Most closely the passage of pedagogical practice is interconnected with the study of disciplines teaching methodology (consolidation of knowledge, skills and abilities of methodological development and analysis of the main forms of educational and extracurricular activities; explanations, development and control of knowledge; organization of educational work with students; development and improvement of the curriculum for internal medicine).

By the beginning of teaching practice, a graduate student must:

### **know:**

- the content of the taught subject within the scope of the minimum candidate program for the profile of training;
- basic methods and techniques of teaching in higher education;
- modern technologies for collecting, processing and presenting information;

### **be able to:**

- apply theoretical and practical (clinical) knowledge and skills in the pedagogical process;
- interact with an international student audience, taking into account its characteristics;
- design the educational process using modern technologies;
- prepare a practice report

### **own:**

- the main methods of information processing;
- by means of communication in professional pedagogical activity;
- self-esteem and self-control skills

## **4. Forms of teaching practice.**

Pedagogical practice of students in direction 31.06.01 Clinical Medicine, profile 14.01.04 Internal disease: heart failure (higher education - training of highly qualified personnel) is undergoing at the clinical bases of the RUDN Medical Institute.

The internship program includes the preparation and conduct of practical classes in the disciplines of Internal Medicine and Cardiology with students of 2, 3, 4, 5, 6 courses of the directions of training Medicine and Dentistry, as well as the organization of educational work with students.

### 5. Place and time of educational practice

P / p No.	The name of the type of practice in accordance with the curriculum	Semester of internship	Practice year	Place of practice	Total number of allocated jobs
1	Teaching practice	2,3,4,5	1,2,3	Scientific library of the RUDN University, classrooms of the department of education, medical, diagnostic departments, archives of medical documentation of clinical bases of the profile department: Department of Internal Medicine with a course of cardiology and functional diagnostics named after V.S. Moiseeva (Moscow, Vavilova str., 61, GBUZ "GKB named after V.V. Vinogradov, Moscow DZ").	5

### 6. Competencies of the student, formed as a result of teaching practice.

In the process of mastering the discipline, the following universal competencies (UC) are formed:

- the ability to follow ethical standards in professional activity (UC-5);
- the ability to plan and solve problems of their own professional and personal development (UC-6).

In the process of mastering the discipline, the following general professional competencies (GPC) are formed:

- readiness for teaching in educational programs of higher education (GPC-6).

In the process of mastering the discipline, the following professional competencies (PC) are formed:

- readiness for teaching activities in the field of clinical medicine in educational programs of higher education (PC-5).

As a result of passing pedagogical practice, the student must:

- **Know** basic psychological, pedagogical, methodological patterns of teaching cardiology at the university.
- **Be able to** explain, practice and control knowledge of cardiology; organize educational work with students.
- **Own** skills of methodological development and analysis of the main forms of educational and extracurricular activities in cardiology.

### 7. The structure and content of teaching practice

The total workload of the practice is 24 credits / 864 hours.

No. p / p	Sections (stages) of practice	Types of work, including independent work of a graduate student	Labor intensity (hours)	Monitoring forms
<b>2 semester</b>				
1.	<b>Preparatory stage</b>	An introductory conference at the department, familiarization with the practice program, the procedure for protecting the practice report, requirements and evaluation criteria. Safety briefing.	18 (0.5 WE)	Tracking attendance
		Drawing up an individual plan practice.	18 (0.5 WE)	Individual plan
		Visiting practical classes of the teaching staff of the department by discipline	72 (2 WE)	Tracking attendance
2.	<b>The main stage</b>	Studying the official duties and rights of the teaching staff of the university, internal regulations, documents regulating the educational process. Study of the Federal State Educational Standard, curricula and training programs for students in the specialty "General Medicine"; approved working curricula (modules) in the disciplines of the curriculum, training and principles of their preparation.	36 (1 WE)	The program and teaching materials of the discipline, lecture notes, presentations.
		Selection and analysis of the main and additional literature in accordance with the topic and goals of the planned classes. Studying programs and teaching materials of the discipline, drawing up lecture notes, presentations. Development of the module program (section) of the academic discipline. Preparation teaching materials conducting classes. Development of a plan and outline of classes.	72 (2 WE)	The program and teaching materials of the discipline, lecture notes, presentations. Practice diary.

Total			216 (6 WE)	
<b>3 semester</b>				
<b>3.</b>	<b>The main stage</b>	Conducting all types of classroom practical (clinical) classes with students.	72 (2 WE)	Attendance records, practice diary
		Organization and conduct of extracurricular activities.	72 (2 WE)	Attendance records, practice diary
		Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	36 (2 WE)	Attendance records, practice diary
Total			216 (6 WE)	
<b>4 semester</b>				
<b>4.</b>	<b>The main stage</b>	Conducting all types of classroom practical (clinical) classes with students.	72 (2 WE)	Attendance records, practice diary
		Organization and conduct of extracurricular activities.	72 (2 WE)	Attendance records, practice diary
		Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	72 (2 WE)	Attendance records, practice diary
Total			216 (6 WE)	
<b>5 semester</b>				
<b>5.</b>	<b>The main stage</b>	Conducting all types of classroom practical (clinical) classes with students.	72 (2 WE)	Attendance records, practice diary
		Organization and conduct of extracurricular activities.	36 (1 WE)	Attendance records, practice diary
		Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	36 (1 WE)	Attendance records, practice diary
<b>6.</b>	<b>The final stage</b>	Making a practice diary. Preparation of a practice report. Practice record protection.	72 (2 WE)	Practice report. Certification at the meeting of the department
Total			216 (6 WE)	
<b>Total amount</b>			864 (24 SET)	

## **8. Educational, research and scientific-production technologies used in teaching practice:**

Within the framework of pedagogical practice, it is envisaged that a postgraduate student will conduct classroom studies with students in the disciplines of the training profile, extracurricular work with students.

The teaching of disciplines is organized according to a credit-modular system with the use of appropriate educational equipment, computers, multimedia installations.

In practical (clinical) classes in classrooms, topics are discussed in accordance with the lesson plan, including with the use of multimedia presentations, viewing and discussion of educational videos, solving situational problems, clinical analyzes of patients; Within the framework of practical (clinical) classes, visits with students to operating, diagnostic and treatment rooms, and supervision of patients are also organized.

Extracurricular work with students includes attending thematic medical conferences, congresses; work in SSS and scientific seminars of departments in the direction of cardiology.

At the end of the semester, the graduate student takes part in the organization and conduct of intermediate and final certification of students in the disciplines of the department of education.

At the end of each semester, the graduate student fills out a practice diary indicating all types of work carried out in the framework of pedagogical activity.

## **9. Educational and methodological support of independent work of graduate students in teaching practice**

The independent work of a postgraduate student includes the preparation of teaching materials and planning the educational process, during which the graduate student independently conducts practical and independent studies (in the presence and under the supervision of a teacher), as well as the study of occupational health and safety rules.

The postgraduate student is obliged to complete the scope of work stipulated by the internship program, be responsible for the work performed and its results, and submit a written report on the internship.

The process of organizing independent work includes the following stages:

- preparatory: studying the program of practice, defining goals, drawing up a plan for independent work for the period of practice, agreeing on the plan with the head of the practice;
- main: the implementation of the practice program, the plan of independent work, the use of techniques for finding information, assimilation, processing, application of knowledge in practice, fixing the results, self-organization of the work process, maintaining the documentation accompanying the practice;
- final: assessment of the significance and analysis of the results of activities, their systematization, assessment of the effectiveness of independent work during practice, reflection on self-development and implementation of the practice program.

Before the start of the practice, an orientation conference is held, at which the trainees get acquainted with the tasks, content and organizational issues of the practice. Each trainee draws up an individual plan of his activities for the entire period of practice.

In the course of teaching practice, a graduate student must complete the following tasks:

- develop a curriculum (optional);
- independently conduct lectures and seminars (practical) classes, in the amount determined by the head of the practice;
- develop and conduct educational activities for the students of the department;
- to develop a project in one of the directions of the educational work of the university;
- participate in the organization of teaching practice for students.

Regular consultations with the teacher provide stable feedback and allow, if necessary, to quickly make adjustments in the organization of the practice program implementation process. Therefore, the student should provide in the plan of independent work a schedule of consultations with the head of the practice.

*Structure and content of the practice report:*

- the name of the report;
  - surname, name, patronymic of the graduate student, country, group;
  - information about attending lectures and master classes;
  - description of the research method and material;
  - a report on the implementation of an individual assignment;
  - assessment and signature of the supervisor;
  - assessment and signature of the head of practice.
- Criteria for evaluating results* independent work of a graduate student during practice are:
- attending lectures and other practice events;
  - observance of the rules of labor organization and safety measures;
  - the quality of the individual assignment;
  - meaningfulness of the report on practice, design in accordance with the requirements known or given by the teacher for such materials.

## **10. Educational-methodical and informational support of educational practice:**

### a) main literature

1. D. Zipes, P. Libby et all. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 2-Volume Set, 11th Edition. Elsevier, 2018 .-- 2128.
2. Hurst's The Heart, 14th Edition. V. Fuster, RA Harrington, J. Narula, ZJ Eapen. McGraw-Hill Education, 2017 .-- 2208
3. Heart Failure: A Companion to Braunwald's Heart Disease, 3th Edition. D. Mann, GM Felker. Saunders, 2015 .-- 784
4. Harrison's Principles of Internal Medicine, 20th Edition. D. Kasper, AS Fauci, SL Hauser, DL Longo, JL Jameson, J. Loscalzo. McGraw-Hill Education / Medical, 2018.
5. Davidson's Principles and Practice of Medicine, 23th Edition. SH Ralston, ID Penman, M. W. J. Strachan. Elsevier, 2018 .-- 1440
6. Feigenbaum's Echocardiography. 8th Edition. WF Armstrong, T. Ryan. Wolters Kluwer. 2018 .-- 2841.
7. Evidence-Based Medicine - 5th Edition. S. Straus, P. Glasziou, S. Richardson, B. Haynes. Elsevier, 2018 .-- 336.
8. Moiseev V.S., Moiseev S.V., Kobalava Zh.D .. Heart Diseases. M .: "Medical Information Agency", 2008. -528 p.
9. Guidelines for the diagnosis and treatment of chronic heart failure. European Heart Journal (2008) 22, 1527-1560
10. American College of Cardiology / European Society of Cardiology Clinical Expert Consensus Document on Hypertrophic Cardiomyopathy European Heart Journal (2010) 24, 1965-1991
11. Guidelines on Prevention, Diagnosis and Treatment of Infective Endocarditis Executive Summary European Heart Journal (2009) 25, 267-276
12. ACC / AHA / ESC guidelines for the management of patients with atrial fibrillation. European Heart Journal (2010) 22, 1852-1923
13. Guidelines on diagnosis and treatment of pulmonary arterial hypertension European Heart Journal (2010) 25, 2243–2278
14. Cardiomyopathy and myocarditis / V.S.Moiseev. - M.: GEOTAR-Media, 2012 .-- 352 p.
15. Acute heart failure / V. S. Moiseev. - M.: Medical Information Agency, 2012 .-- 328 p.
16. Guidelines for the management of patients with atrial fibrillation. www. cardiosite.ru
17. Expert Consensus Document on the Use of Antiplatelet Agents. European Heart Journal (2014) 25, 166-181
18. Cardiology. National leadership. Edited by E.V. Shlyakhto Geotar-Media. 2015.800 p.
19. ESC Guidelines for the Management of Patients with Infective Endocarditis, 2015. Available on the website:<http://www.scardio.org/guidelines>
20. Fundamentals of Internal Medicine. Manual in 2 volumes / ed. V.S. Moiseev, Zh.D. Kobalava, I.V. Maev, A.D. Kaprin, E.I. Gusev, M.V. Shestakova, S.V. Moiseev. 2nd ed., Rev. and add. Moscow. LLC "Medical Information Agency", 2020.

21. VNOK recommendations for the treatment of acute coronary syndrome without persistent ST-segment elevation on ECG. [www. cardiosite.ru](http://www.cardiosite.ru)
22. Recommendations for the diagnosis, treatment and prevention of hypertension in children and adolescents of the All-Russian Scientific Society of Cardiology and the Association of Pediatric Cardiologists of Russia. [www. cardiosite.ru](http://www.cardiosite.ru)

b) additional literature

- eleven. The ESC Textbook of Cardiovascular Medicine. TFLüscher, JA Camm, G. Maurer, P. Serruys. Oxford University Press, 2018.
2. Oxford Textbook of Advanced Heart Failure and Cardiac Transplantation - Oxford Medicine. MJDomanski, MR Mehra, MA Pfeffer. Oxford University Press, 2016 .-- 442.
3. The ESC Textbook of Intensive and Acute Cardiovascular Care. M.Tubaro, P. Vranckx, S. Price, C. Vrints. Oxford University Press, 2015 .-- 799.
- four. The EHRA book of Pacemaker, ICD, and CRT Troubleshooting. H.Burri, C. Israel, J.-C. Deharo. Oxford, 2015 .-- 310.
- five. The EACVI Textbook of Cardiovascular Imaging. JL Zamorano et al. Oxford University Press, 2015 .-- 678.
6. The ESC Handbook on Cardiovascular Pharmacology. JCKaski, KP Kjeldsen. Oxford University Press, 2019. -960.
7. How to Read a Paper: The Basics of Evidence-based Medicine and Healthcare, 6th Edition | Trisha Greenhalgh.T. Greenhalgh. Blackwell Bmj Books, 2006 .-- 229.
- eight. Guidelines for cardiac arrhythmias p / ed. E.I. Chazova. M. 2010.
- nine. Moiseev V. S., Kiyakbaev G.K. Cardiomyopathies and myocarditis. Moscow, GEOTAR-Media. - 2013. 352s
10. Moiseev V. S, Nikolaev A.Yu., Garmash I.V. Alcoholic disease. Moscow, GEOTAR-Media. - 2014. 480s

c) journals:

1. Journal of the American College of Cardiology.
2. JACC: Heart Failure.
3. JACC: Cardiovascular Imaging.
4. Circulation.
5. Circulation: Heart Failure.
6. European Heart Journal.
7. European Journal of Heart Failure.
8. European Heart Journal - Cardiovascular Imaging.
9. EP-Europace.
10. JAMA: Cardiology
11. JAMA: Internal Medicine.

**Internet resources:**

1. Portal of the All-Russian Scientific Society of Cardiology and the Association of Pediatric Cardiologists of Russia. [http: // www. cardiosite.ru/](http://www.cardiosite.ru/)
2. Portal of the European Association of Cardiology. <http://www.escardio.org/>
3. American Heart Association website. <http://www.heart.org/HEARTORG/>
4. American Heart Association website. [www.acc.org](http://www.acc.org)
5. Electronic library system of RUDN University;
6. RUDN educational portal (<http://web-local.rudn.ru>);
7. Scientific electronic library (<http://elibrary.ru/defaultx.asp>);
8. Universal library ONLINE (<http://biblioclub.ru>);
9. Library of electronic journals BENTHAM OPEN (<http://www.benthamscience.com/open/az.htm>);
10. Elsevier Electronic Journal Library (<http://www.elsevier.com/about/open-access/open-archives>)
11. Medical online library MedLib (<http://med-lib.ru/>);



12. Recommendations of the Russian Society of Cardiology [www.scardio.ru](http://www.scardio.ru)  
 13. US National Library of Medicine National Institutes of Health: <http://www.ncbi.nlm.nih.gov/pubmed/>  
 14. Scientific electronic library: <http://library.ru/defaultx.asp>

### 11. Material and technical support of the discipline:

P / p No.	Department name	Name of special * rooms and rooms for independent work	Name of benefits, equipment
1.	<b>Department of Internal Medicine with a course of cardiology and functional diagnostics named after V.S. Moiseeva</b>	Moscow, st. Vavilova, 61, GBUZ GKB im. V.V. Vinogradov DZ Moscow " 10 classrooms for 30, a conference hall for 200 training and seating places.	Lecture rooms are equipped with multimedia equipment. The offices are equipped with computers and Internet access, there is a scientific laboratory for genetic research. 1 lecture hall (multimedia projector, screen), 1 lecture room (laptop, LCD plasma screen). ECG rooms, ECHO-cardiography, functional diagnostics laboratory, general clinical laboratory, wards with patients of various therapeutic and cardiological profiles. A set of specialized furniture; technical means: multimedia projector EPSONEB-965, laptop ASUSF9ECore 2 DUOT5750, Internet connection, plasma panel (3 pcs.), magnetic board. A set of dummies, a set of educational videos and presentations, a set of analog and digital radiographs, tomograms, sonograms, angiograms, educational posters and tables.

### 12. Forms of certification based on the results of practice.

Based on the results of the teaching practice, the postgraduate student draws up a report that includes the developed lesson plans on the topics of the academic discipline taught at the department, didactic material, recommended literature, guidelines and recommendations, as well as a presentation and a fragment of test items for the discipline. The practice report is presented for defense and is assessed as “excellent”, “good”, “satisfactory”, “unsatisfactory” and in the ECTS system (A, B, C, D, E), taking into account the point-rating system adopted at the University.

### 13. Fund of assessment tools for intermediate certification of students in research practice

The results of passing each section of the practice are assessed by means of intermediate certification (as a rule, twice a year), with grades according to the system “excellent”, “good”, “satisfactory”, “unsatisfactory” and in the ECTS system (A, B, C, D, E) taking into account the point-rating system adopted at the University.

### Scoring structure:

Types of educational work / sections of practice	Number of points
<b>2 semester</b>	
Participation in a kick-off conference	15
Drawing up a practice plan	15
Attending the classes of the head of the discipline	20
Development of the program of the module (section) of the discipline	25
Preparation of teaching materials	25
<b>Total</b>	<b>100</b>
<b>3 semester</b>	
Conducting classroom practical training	40
Conducting extracurricular activities	30

Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	30
<b>Total</b>	<b>100</b>
<b>four semester</b>	
Conducting classroom practical training	40
Conducting extracurricular activities	30
Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	30
<b>Total</b>	<b>100</b>
<b>5 semester</b>	
Conducting classroom practical training	40
Conducting extracurricular activities	20
Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	20
Making a practice diary	5
Preparation and defense of a report on practice at a meeting of the department	15
<b>Total</b>	<b>100</b>

**Correspondence of grading systems (previously used grades of final academic performance, ECTS grades and the point-rating system (BRS) of grades).**(In accordance with the Order of the Rector No. 420 dated 05.05.2016):


BRS points	Traditional assessments in the Russian Federation	Points to translate grades	Evaluations	ECTS grades
86 - 100	Excellent	95 - 100	5+	A
		86 - 94	5	B
69 - 85	Okay	69 - 85	4	C
51 - 68	Satisfactorily	61 - 68	3+	D
		51 - 60	3	E
0 - 50	Conditionally unsatisfactory	31 - 50	2+	Fx
	Unsatisfactory	0 - 30	2	F

#### **Evaluation tools, criteria and indicators for assessing learning outcomes**

Competence assessed	Practice type / section	Evaluation tool	Evaluation criteria
UC-5, GPC - 6, PC-5	Participation in a kick-off conference	Plan classes... Presentation of the material.	Planning depth Consistency and sequence of presentation
	Drawing up a practice plan		
	Attending the classes of the head of the discipline		
UC-5, GPC - 6, PC-5	Development of the program of the module (section) of the discipline	Plan classes... Presentation of the material.	Planning depth Consistency and sequence of presentation Adequacy of the proposed control methods
	Preparation of teaching materials		

UC-5, GPC - 6, PC-5	Conducting classroom practical training	Plan classes. Presentation of material, control of knowledge.	Planning depth Consistency and sequence of presentation Adequacy of the proposed control methods
	Conducting extracurricular activities		
	Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.		
UC-5, GPC - 6, PC-5	Making a practice diary	Making a practice diary Preparation and defense of a report on practice at a meeting of the department	Compliance of classes with the program of the department.
	Preparation and defense of a report on practice at a meeting of the department	Personal portfolio	Completeness and reliability of information about the learning outcomes and scientific activities of a graduate student

**Developers:**

<b>Head of Department</b>	Internal diseases with the course of cardiology and functional diagnostics named after V.S. Moiseev	Kobalava Zh.D. 
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