

**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION,
MINISTRY OF SCIENCE, HIGHER EDUCATION AND INNOVATIONS
KYRGYZ REPUBLIC**

Kyrgyz-Russian Slavic University
named after the first President of the Russian Federation B.N. Yeltsin



Research work

Course Outline (module)

Assigned to	Department of Therapy No. 2 (specialty “General Medicine”)		
Syllabus	25_1 ld in.plx 560001 General Medicine (For international students)		
Qualification	Physician (General Medicine)		
Form of study	Intramural (full-time)		
Total labor intensity	1 credit point		
Hours according to the including:	30	Types of control in semesters:	
classroom activities	18	credit 9	
independent work	12		

Distribution of course hours by semester

Semester (<Course>.<Semester in the course>)	9 (5.1)		Total	
	UP	RP	UP	RP
Weeks	16			
Type of activity	UP	RP	UP	RP
Practical	18	18	18	18
Total auditorium	18	18	18	18
Contact work	18	18	18	18
The work itself	12	12	12	12
Total	30	30	30	30

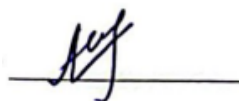
The program was compiled by:

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Reviewer(s):

Doctor of Medical Sciences, Professor, Polupanov A.G.



Course Outline of the discipline

Research work

compiled on the basis of the curriculum:

560001 General Medicine (For international students)

approved by the Academic Council of the University dated _____ protocol No. _____

The Course Outline endorsed at the Meeting of the Therapy Department № 2 Specialty "General Medicine"

Protocol No. 1 dated August 26, 2025

The program is valid from the 2025 to 2030 academic year.

Head of the Department Sabirov I.S.



Approval of the RPD for implementation in the next academic year

Chairman of the UMS

__ _____ 2026

The work program was reviewed, discussed and approved for execution in the 2026-2027 academic year at a department meeting

Protocol dated __ _____ 2026 No. __
Head of the Department Sabirov I.S.

Approval of the RPD for implementation in the next academic year

Chairman of the UMS

__ _____ 2027

The work program was reviewed, discussed and approved for execution in the 2027-2028 academic year at a department meeting

Protocol dated __ _____ 2027 No. __
Head of the Department Sabirov I.S.

Approval of the RPD for implementation in the next academic year

Chairman of the UMS

__ _____ 2028

The work program was reviewed, discussed and approved for execution in the 2028-2029 academic year at a department meeting

Protocol dated __ _____ 2028 No. __
Head of the Department Sabirov I.S.

Approval of the RPD for implementation in the next academic year

Chairman of the UMS

__ _____ 2029

The work program was reviewed, discussed and approved for execution in the 2029-2030 academic year at a department meeting

Protocol dated __ _____ 2029 No. __
Head of the Department Sabirov I.S.

1. OBJECTIVES OF LEARNING THE DISCIPLINE

1.1	Improving the level of students' training through their acquisition of methods, techniques and skills during the learning process
1.2	carrying out research work, developing their creative abilities, independence, initiative in
1.3	studies and future professional activities within the framework of specialty 31.05.01 "General Medicine".

2. PLACE OF DISCIPLINE IN THE STRUCTURE OF THE OOP

OOP cycle (section):		FTD
2.1	Requirements for preliminary preparation of the student:	
2.1.1	Outpatient therapy	
2.1.2	Evidence-based medicine	
2.1.3	Clinical practice (Assistant physician of an outpatient clinic)	
2.1.4	Clinical Practice (Assistant to an Emergency and Urgent Care Physician)	
2.1.5	Research work	
2.1.6	Clinical pharmacology	
2.1.7	Psychiatry, medical psychology	
2.1.8	Faculty therapy	
2.1.9	Endocrinology	
2.1.10	Radiation diagnostics	
2.1.11	Pathophysiology, clinical pathophysiology	
2.1.12	Pathological anatomy	
2.1.13	Propaedeutics of internal diseases	
2.1.14	Immunology	
2.1.15	Normal physiology	
2.2	Disciplines and practices for which mastery of this discipline (module) is necessary as a prerequisite:	
2.2.1	Infectious diseases	
2.2.2	Clinical practice (Assistant physician of an outpatient clinic)	
2.2.3	Clinical Practice (Assistant to an Emergency and Urgent Care Physician)	
2.2.4	Clinical pharmacology	
2.2.5	Research work	
2.2.6	Evidence-based medicine	
2.2.7	Outpatient therapy	
2.2.8	Family medicine	
2.2.9	Preparing for and passing the state exam	
2.2.10	Standards of diagnosis and treatment	

3. STUDENT COMPETENCIES DEVELOPED AS A RESULT OF LEARNING A DISCIPLINE (MODULE)

PC-21: Capable and willing to plan and conduct scientific research.

Know:

Level 1	<p>modern methods of scientific research, stages and principles of organizing scientific research;</p> <p>requirements for the design of scientific research works (SRW), including ethical standards, citation, anti-plagiarism;</p> <p>rules for formulating a scientific problem, hypothesis, goals and objectives of the research;</p> <p>basic biostatistical methods of data processing and software for their analysis;</p> <p>requirements for scientific publication, structure of a scientific article, abstract, research report;</p> <p>modern sources of scientific information (PubMed, Scopus, Web of Science, etc.).</p>
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Be able to:

Level 1	<p>formulate a scientific problem, goal, hypothesis and research objectives;</p> <p>conduct a search and critical evaluation of scientific literature, use the evidence base (EBM);</p> <p>develop a research plan, select methods and tools for data collection;</p> <p>apply biostatistical methods to analyze results (descriptive statistics, reliability criteria, correlation, etc.);</p> <p>interpret the obtained data and draw scientifically based conclusions;</p> <p>present the research results in the form of a report, paper, article, or presentation.</p>
Own:	
Level 1	<p>skills to conduct independent scientific research under the guidance of a supervisor;</p> <p>methods of statistical data processing in available programs (Excel, SPSS, R, MedCalc, etc.);</p> <p>skills in preparing scientific publications, theses, posters and presentations;</p> <p>skills in applying the principles of evidence-based medicine in scientific work;</p> <p>skills in public presentation of research results.</p>

As a result of mastering the discipline, the student must

3.1	Know:
3.1.1	Prospects and trends in the development of medical science; the latest scientific achievements in the field of study;
3.1.2	concepts and principles of modern methods of scientific research, methods of statistical processing of obtained research results;
3.1.3	principles of scientific methodology and the specifics of scientific research in medicine;
3.1.4	the specifics of methods for collecting theoretical and empirical data and their processing;
3.1.5	general methodology, methods, logic and planning of scientific research in medicine;
3.1.6	forms of presentation of scientific research results.
3.2	Be able to:
3.2.1	Use educational, scientific, popular science literature, and the Internet for professional activities;
3.2.2	apply modern methods of scientific research and statistical processing of the obtained research results;
3.2.3	apply methods and means of knowledge for intellectual development;
3.2.4	select methods in accordance with the goals and objectives of the study;
3.2.5	organize the search for the necessary information;
3.2.6	to form a program and scientific apparatus for research;
3.2.7	plan and carry out independent scientific work;
3.2.8	summarize and analyze information, prepare a public report, and conduct a reasoned scientific discussion on the topic of the report.
3.3	Own:
3.3.1	Methods of collecting empirical data, their qualitative and statistical analysis;
3.3.2	algorithm of a holistic approach to the analysis of the problem under study; work with scientific literature;
3.3.3	basic technologies for transforming information: text and spreadsheet editors, Internet search;
3.3.4	a foreign language to the extent necessary to enable communication and obtain information from foreign sources;
3.3.5	practical skills in using modern information technologies;
3.3.6	modern methods of scientific research and statistical processing of the obtained research results;
3.3.7	principles for presenting the results of academic research in accordance with the requirements;
3.3.8	ways of competently presenting the results of one's own scientific research;
3.3.9	the ability to reasonably defend and justify the results obtained.

4. STRUCTURE AND CONTENT OF THE DISCIPLINE (MODULE)

Lesson code	Name of sections and topics /type of lesson/	Semester / Course	Hours	Competitions	Literature	Inte ract.	Pr. prep.	Note
	Section 1. Organization of research work							
1.1	Content and organization of research work /Pr/	9	3		L1.1 L1.2 L1.3 L1.4 L1.5 L1.6 L1.7 L1.8 L1.9 L1.10 L1.11 L1.12			
1.2	development of an individual program for completing research work /Pr/	9	3					
1.3	review and analysis of information on the topic of research work /Pr/	9	3					
1.4	setting the goal and objectives of the study /Pr/	9	4					
1.5	methods /Pr/	9	5					
	Section 2. Conducting research work							
2.1	conducting research /Wed/	9	3					
2.2	description of scientific novelty and	9	2					
2.3	processing of received data /Wed/	9	3					
2.4	preparation of a scientific publication, presentation of a report /Wed/	9	2					
2.5	independent work of a student /Wed/	9	2					

5. ASSESSMENT TOOLS FUND**5.1. Test questions and tasks**

Questions to check your "KNOW" level of knowledge:

- 1) prospects and trends in the development of medical science, the latest scientific achievements in the field of study;
- 2) concepts and principles of modern methods of scientific research, methods of statistical processing of obtained research results;
- 3) principles of scientific methodology and specifics of scientific research in medicine;
- 4) specificity of methods for collecting theoretical and empirical data and their processing;
- 5) general methodology, methods, logic and planning of scientific research in medicine;
- 6) forms of presentation of scientific research results.

Questions to check the level of training "CAN":

- 1) use educational, scientific, popular science literature, and the Internet for professional activities;
- 2) apply modern methods of scientific research and statistical processing of the obtained data research results;
- 3) apply methods and means of cognition for intellectual development;
- 4) select methods in accordance with the goals and objectives of the study;
- 5) organize the search for the necessary information;
- 6) to form a program and scientific apparatus for research;
- 7) plan and carry out independent scientific work.
- 8) summarize and analyze information, prepare a public report, and conduct a reasoned scientific discussion on topic of the report.

Questions to check the level of "MASTER" training:

- 1) methods of collecting empirical data, their qualitative and statistical analysis;
- 2) an algorithm for a holistic approach to the analysis of the problem under study; work with scientific literature;
- 3) basic technologies for information transformation: text and spreadsheet editors, Internet search;
- 4) a foreign language to the extent necessary to enable communication and obtain information from foreign sources

- 5) practical skills in using modern information technologies;
- 6) modern methods of scientific research and statistical processing of the obtained research results;
- 7) principles of presentation of the results of educational research in accordance with the requirements;
- 8) ways of competently presenting the results of one's own scientific work research; the ability to reasonably defend and substantiate the findings results.

5.2. Topics of coursework (projects)

Not provided

5.3. Assessment Fund

The assessment tools fund for discipline is an appendix to the work discipline:

- Appendix No. 2
- Appendix No. 3
- Appendix No. 4
- Appendix No. 5

5.4. List of types of assessment tools

6. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE (MODULE)			
6.1. Recommended literature			
6.1.1. Primary Literature			
	Authors, compilers	Title	Publisher, year
L1.1	K.D. Abdullin, O.A. Bolbachan	Medical Statistics: A Textbook	Bishkek: Publishing house KRSU 2006
L1.2		Education and Science in the Kyrgyz Republic: Statistical Digest	Bishkek: National Statistical Committee of the Kyrgyz Republic 2006
L1.3	R.S. Rozyeva, A.S. Sydykov, D.A. Bayyzbekova	Biomedical Statistics: A Textbook	Bishkek: Publishing house KRSU 2009
L1.4	K.D. Abdullin, O.A. Bolbachan, R.S. Rozyeva	Medical statistics	2011
L1.5	Abdullin K.D., Bolbachan O.A., Rozyeva R.S., Abdullin K.D.	Medical Statistics: A Textbook	Bishkek: KRSU Publishing House 2010

	Authors, compilers	Title	Publisher, year
L1.6	Abdullin K.D., Bolbachan O.A., Mambetaliev B.S., Karataev M.S.	Medical Statistics: A Textbook	Bishkek: KRSU Publishing House 2006
L1.7	Kuznetsov I.A.	Scientific Research: Methodology of Conduct and Design. 3rd edition, revised and expanded: textbook	Moscow 2008
L1.8	Shklyar M.F.	Fundamentals of Scientific Research: A Study Guide	Publishing house Dashkov and K 2008
L1.9	Moiseev V.S., Kobalava Zh.D., Moiseev S.V.	Internal Medicine with the Fundamentals of Evidence-Based Medicine and Clinical Pharmacology /	"GEOTAR-Media" 2010
L1.10	Kukushkina V.V.	Organization of research work of students (master's students): Textbook	M.: INFRA-M 2011
L1.11		Science at KRSU	Bishkek: KRSU Publishing
L1.12		GOST R 7.32-2001. System of standards for information, librarianship, and publishing. Research report . Structure and formatting rules: Interstate standard .	Enter. 2002 - 07 – 01: ed. from 2005 - 09 - 07. - M.: Standartinform 2012
L1.13	Altman D.G.	Practical Statistics for Medical Research	2023 edition.
L1.14	Higgins J., Thomas J.	Cochrane Handbook for Systematic Reviews	2023–2024.
L1.15	EQUATOR	Network guidelines (CONSORT, PRISMA, STROBE)	2023–2025.
L1.16	WHO	Handbook for Clinical Research	2024 edition.
L1.17	PubMed (NCBI)	Database of medical articles	updated daily.

L1.18	Cochrane Library	Systematic reviews	2023–2025.
L1.19	UpToDate	Clinical guidelines, updates	2023–2025.
L1.20	ClinicalTrials.gov	Clinical research database.	
6.3. List of information and educational technologies			
6.3.1 Competency-oriented educational technologies			
6.3.1.1	Traditional educational technologies – lectures, seminars, focused primarily on communication		
6.3.1.2	knowledge and methods of action transmitted to students in a finished form and intended for reproduction		
6.3.1.3	assimilation and analysis of specific examples. Lecture material is provided to students using		
6.3.1.4	multimedia equipment and periodic presentation of thematic patients. Use		
6.3.1.5	chambers, study rooms for students to work in.		
6.3.1.6	Tables of models for various diseases of the respiratory system, cardiovascular,		
6.3.1.7	digestive, urinary and musculoskeletal systems.		
6.3.1.8	Multimedia system and computer		
6.3.1.9	Discs, audio recordings of cardiac auscultation, radiography of respiratory organs for various diseases.		
6.3.1.10	Offices in CIPO (Alamedin - 1)		
6.3.1.11	Innovative educational technologies – develop systemic thinking and the ability to generate		
6.3.1.12	ideas for solving various situational problems. These include situational problems, role-playing games, work in		
6.3.1.13	small groups, scientific and practical conferences.		
6.3.1.14	Information educational technologies – independent use of computer technology by students		
6.3.1.15	technology and Internet resources for completing practical assignments and independent work. For better		
6.3.1.16	After mastering the material and working independently, students prepare essays, reports, and presentations.		
6.3.1.17	Access to computers (Alamedin 1, Leo Tolstoy Street)		
6.3.2 List of information reference systems and software			
6.3.2.1	www.med.kg Website of the Ministry of Health of the Kyrgyz Republic		
6.3.2.2	http://www.athero.ru "Website of the Atherosclerosis Center"		
6.3.2.3	www.medmir.com REVIEWS OF WORLD MEDICAL JOURNALS IN RUSSIAN		
6.3.2.4	www.escardio.org European Society of Cardiology ESC		
6.3.2.5	www.lib.krsu.kg "Electronic Library" of KRSU		
6.3.2.6	www.rmj.ru Russian Medical Journal		
6.3.2.7	Internal Medicine		
6.3.2.8	http://marc.rsmu.ru:8020/marcweb2/Default.asp Makolkin, V. I. Internal diseases		
6.3.2.9	http://marc.rsmu.ru:8020/marcweb2/Default.asp Internal diseases: tests and situations.		
6.3.2.10	http://marc.rsmu.ru:8020/marcweb2/Default.asp General medical practice		

6.3.2.11	http://marc.rsmu.ru:8020/marcweb2/Default.asp Rheumatology
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7. LOGISTICS AND TECHNICAL SUPPORT OF THE DISCIPLINE (MODULE)

7.1	Computer and multimedia equipment;
7.2	Training software discs;
7.3	Electronic library
7.4	Website addresses of Russian publishers on internal medicine.
7.5	Audio lectures by Academician M.M. Mirrakhimov on specific topics of internal medicine
7.6	Traditional analog educational publications: reference lecture notes, teaching aids for studying
7.7	theoretical material.
7.8	The course is taught at the academic building on Leo Tolstoy Street, City Clinical Hospital of Emergency Medical Care No. 4.
7.9	There are 7 standard equipped classrooms (tables, chairs, hangers, boards), 85 seats. 2
7.10	lecture halls for 70 people and for 50 people

8. METHODOLOGICAL INSTRUCTIONS FOR STUDENTS ON MASTERING THE DISCIPLINE (MODULE)

When working with this work program, it is necessary to clearly understand the goals and objectives of the "Research" section

"Work" classroom hours must be completed by students in full. Students must be familiar with the content

programs of independent and individual work, and teachers must fulfill these loads.

To optimize the learning process, the student must use the methodological instructions, which indicate the questions, which must be studied and used in practical work during supervision. To prepare for the report on seminars and practical classes, as well as for the fruitful assimilation of lecture material, the student can and should use primary and secondary literature.

The main form of individual planning of students' research work is the choice and substantiation of the topic, discussion of the plan and intermediate results of the research within the framework of the research seminar. Students work with primary sources, monographs, dissertations, and dissertations, consult with the supervisor. The bases for conducting research work are graduating departments of the Faculty of Medicine. The student's research work is carried out under the guidance of a teacher assigned for the entire training period. Groups are formed of 9-12 people per

basic supervisor. The distribution of students to supervisors is carried out at the beginning of the ninth semester, taking into account students' wishes.

When studying each topic according to the work program, attention should be paid to the integrated system of study discipline, which provides for the following: before mastering a specific topic of scientific work, the student must know

issues of related disciplines, such as anatomy, physiology of a particular system of the human body, functional methods

research, questions of etiology, formation of the mechanism of development of a particular pathology, main syndromes, accompanying diseases of internal organs, as well as practical skills in examining a patient.

Methodological recommendations for independent extracurricular work of students in studying the discipline

The theoretical part of the discipline is intended not only to deepen and consolidate the knowledge acquired in the classroom, but and to promote the development of students' creative skills, initiative and organization of their free time.

Independent work of students includes the implementation of research activities within the framework of scientific work carried out at the department; participation in the organization and holding of scientific, scientific and practical conferences, round tables, discussions organized by the department and the university on selected issues; independent

Conducting seminars, business games, and round tables on current issues; participating in research competitions

; presenting the results of the work in the form of articles in scientific collections of Russian universities and Kyrgyz Republic, including in journals and publications from the list of the Higher Attestation Commission of the Ministry of Education and Science of the Russian Federation and the Kyrgyz Republic,

"KRSU Bulletin", collections of the Faculty of Medicine, designed in accordance with existing requirements, with using modern editing and printing tools.

Students must plan the time required to study the discipline throughout the entire course.

semester, while providing for regular repetition of the material. Working with educational literature is considered as type of academic work on a discipline within the hours allocated for its study (in the independent work section). Each student provided with access to the library collections of the University and the department. Student work in a group develops a sense of collectivism and sociability. Teaching students helps them develop ethical and deontological

communication skills with patients in the therapeutic profile.