

MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC  
MINISTRY OF SCIENCE AND HIGHER EDUCATION RUSSIAN FEDERATION

INTERSTATE EDUCATIONAL ORGANIZATION OF HIGHER EDUCATION  
KYRGYZ-RUSSIAN SLAVIC UNIVERSITY NAMED AFTER THE FIRST PRESIDENT  
MOF THE RUSSIAN FEDERATION B.N. YELTSIN

Department *«Therapy №2 specialty General medicine»*



APPROVED BY  
Vice-rector of academic work

*[Signature]*  
Devyatova E.V.

«29» november 2024 г.

PROGRAMM  
state final certification (SFC)  
of graduates in the field of study  
*«560001/31.05.01» Specialization – «General Medicine»*

Level of higher education *(Specialty)*

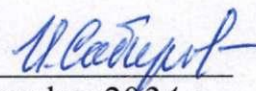
Mode of study *(Full-time)*

BISHKEK 2024

The SFC program was developed, discussed and approved at a meeting of the Department of Therapy №2 of the specialty «General Medicine»

Record № 3 from  
« 28 » September 2024 г.

Head of the Department of Therapy №2 of the specialty «General Medicine»

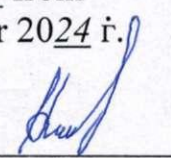
Sabirov I.S.   
« 28 » September 2024 г.

#### APPROVED BY

The SFC program was reviewed, approved and recommended for use by the Academic Council of the Medical Faculty

Record № 2 from  
« 17 » October 2024 г.

Chairman of the Academic Council of the Faculty

Karaeva R.R.   
« 17 » October 2024 г.

## Content

|    |  | Стр. |
|----|--|------|
| 1  | General provisions   | 4    |
| 2  | Graduate characteristic  | 4    |
| 3  | The results of the development of the educational program                                    | 6    |
| 4  | Scope, structure and content of the state final certification                                | 7    |
| 5  | Fund of evaluation funds for conducting SFC  | 8    |
| 6  | Interdisciplinary state final certification on the national and regional component           | 18   |
| 7  | Preparation for and passing the state exam   | 19   |
| 8  | Educational, research and scientific production technologies used in preparation for the SFC | 32   |
| 9  | Material and technical support of the SFC  | 32   |
| 10 | Information about the changes made for the current academic year                             | 34   |

## **1 General provision**

### **1.1 The aim of the state final certification**

The aim of the state final certification is to establish the level of preparation of a graduate for the performance of professional tasks and the compliance of his preparation with the requirements of the federal state educational standard of higher education (FSES HE), approved by order of the Ministry of Education and Science of Russia dated *February 09, 2016 No. 95, the state educational standard of higher professional education of the Kyrgyz Republic*, approved by the order of the Ministry of Education and Science of the Kyrgyz Republic dated *September 15, 2015 No. 1179/1*, and the main professional educational program of higher education (MPEP HE), developed in KRSU.

### **1.2 The membership of the state final certification**

The state final certification of preparation

560001 / 31.05.01 "*General Medicine*" includes:

- a) Interdisciplinary state final certification in the national and regional component "History of Kyrgyzstan", "Kyrgyz language in medicine", "Geography of the Kyrgyz Republic";
- б) Preparation for and passing the state exam

### **1.3 Normative base of the state final certification**

1.3.1 Final certification is carried out in accordance with the normative document of the University "The procedure for conducting state final certification for educational programs of higher education - bachelor's degree programs, specialty programs and master's degree programs of the Kyrgyz-Russian Slavic University" (hereinafter - the Procedure). The specified document defines and regulates:

- general provisions on final certification;
- rules and procedure for the organization and procedure for the final certification;
- duties and responsibilities of the head of the final qualification work;
- the results of the state final certification;
- the procedure for appealing the state final certification;
- documentation on the state final certification.

## **2. Graduate characteristic**

### **2.1 The field of professional activity of graduates includes:**

Protecting the health of citizens by ensuring the provision of medical care in accordance with established requirements and standards in the field of healthcare.

### **2.2 The objects of professional activity of graduates are:**

- Individuals (patients);
- Population;
- A set of means and technologies aimed at creating conditions for protecting the health of citizens.

### **2.3 Types of tasks of professional activity**

The main professional educational program in the direction of training

560001 / 31.05.01 "*General Medicine*"

provides for the preparation of graduates for the following types of professional activities:

- medical;
- organizational and managerial;
- scientific research.

## 2.4 Professional tasks

A graduate who has mastered the specialty program in the specialty 31.05.01/560001 "General Medicine" is ready to solve the following professional tasks in accordance with the types of professional activities that the program is focused on (Table 1).

Table 1-Tasks of professional activity

| <b>Code Designation</b>                              | <b>The content of the tasks of professional activity</b>   |
|--|--|
| <b><i>Medical activity:</i></b>                      |  |
| PT-1   | Prevention of the occurrence of diseases among the population through preventive and anti-epidemic measures.   |
| PT-2   | Carrying out preventive medical examinations, medical examinations, dispensary observation.  |
| PT-3   | Collection and medical-statistical analysis of information on health indicators of the population of various age and sex groups, characterizing their state of health.                                       |
| PT-4   | Diagnosis of diseases and pathological conditions of patients.   |
| PT-5   | Diagnosis of emergency conditions.   |
| PT-6   | Pregnancy diagnostics.   |
| PT-7   | Conducting an examination of temporary disability and participation in other types of medical examination.   |
| PT-8   | Provision of primary medical care in outpatient and day hospital conditions.   |
| PT-9   | Providing primary medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care. |
| PT-10  | Participation in the provision of emergency medical care in conditions requiring urgent medical intervention.  |
| PT-11  | Providing medical assistance in emergency situations, including participation in medical evacuation.   |
| PT-12  | Participation in medical rehabilitation and sanatorium treatment.  |
| PT-13  | Formation of motivation among the population, patients and their families aimed at maintaining and strengthening their health and the health of others.  |
| PT-14  | Formation of motivation among the population, patients and their families aimed at maintaining and strengthening their health and the health of others.  |
| <b><i>Organizational, managerial activities:</i></b> |  |
| PT-15  | Application of the basic principles of organizing the provision of medical care in medical organizations and their structural divisions.   |
| PT-16  | Creation of favorable conditions in medical organizations for the stay of patients and the work of medical personnel.  |
| PT-17  | Maintaining medical records in medical organizations.  |
| PT-18  | Organization of a medical expertise.   |
| PT-19  | Participation in the organization of the assessment of the quality of medical care for patients.   |
| PT-20  | Compliance with basic information security requirements.   |
| <b><i>Scienecersearch activities</i></b>             |  |
| PT-21  | Analysis of scientific literature and official statistical reviews, participation in statistical analysis and public presentation of the results.  |
| PT-22  | Participation in solving individual research and scientific-applied tasks in the field of health care for diagnosis, treatment, medical rehabilitation and prevention.                                       |

### **3. The results of the development of the educational program**

As a result of mastering the educational program, the graduate should have formed competencies:

*general cultural competencies (GCC):*

GCC-1: ability for abstract thinking, analysis, synthesis;

GCC-2: the ability to use the foundations of philosophical knowledge to form a worldview position;

GCC-3: the ability to analyze the main stages and patterns of the historical development of society in order to form a civic position;

GCC-4: ability to act in non-standard situations, bear social and ethical responsibility for decisions made;

GCC-5: readiness for self-development, self-realization, self-education, use of creative potential;

GCC-6: the ability to use the methods and means of physical culture to ensure a full-fledged social and professional activity;

GCC-7: readiness to use first aid techniques, methods of protection in emergency situations;

GCC-8: readiness to work in a team, tolerantly perceive social, ethnic, confessional and cultural differences;

*general professional competencies (GPC):*

GPC-1: readiness to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security;

GPC-2: readiness to communicate in oral and written forms in Russian and foreign languages to solve the problems of professional activity;

GPC-3: the ability to use the basics of economic and legal knowledge in professional activities;

GPC-4: the ability and readiness to implement ethical and deontological principles in professional activities;

GPC-5: the ability and readiness to analyze the results of their own activities to prevent professional errors;

GPC-6: readiness to maintain medical records;

GPC-7: readiness to choose the basic physical, chemical, mathematical and natural science concepts and methods in the search for professional tasks;

GPC-8: readiness for the medical use of drugs and other substances, and their combinations in solving professional problems;

GPC-9: the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems;

GPC-10: readiness to ensure the organization of patient care and the provision of primary pre-medical health care;

GPC-11: readiness for the use of medical devices provided for by the procedures for the provision of medical care;

*professional competencies (PC):*

*in medical activity:*

PC-1: the ability and readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early diagnosis, identification of the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects of environmental factors on human health;

PC-2: the ability and readiness to conduct preventive medical examinations, medical examinations and the implementation of dispensary observation;

PC-3: the ability and readiness to carry out anti-epidemic measures, organize the protection of the population in the foci of especially dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies;

PC-4: the ability and readiness to use social and hygienic methods for collecting and medical and statistical analysis of information on population health indicators;

PC-5: willingness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of the disease;

PC-6: the ability to determine in patients the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems - X revision, adopted by the 43rd World Health Assembly, Geneva, 1989;

PC-7: readiness to conduct an examination of temporary disability, participate in the medical and social examination, ascertaining the biological death of a person;

PC-8: ability to determine the tactics of managing patients with various nosological forms;

PC-9: readiness to manage and treat patients with various nosological forms on an outpatient basis and in day hospital conditions;

PC-10: readiness to provide medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care;

PC-11: readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention;

PC-12: readiness to conduct a physiological pregnancy, childbirth;

PC-13: readiness to participate in emergency medical care, including participation in medical evacuations;

PC-14: readiness to determine the need for the use of natural healing factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and spa treatment;

PC-15: readiness to train patients and their relatives in basic hygiene measures of a health-improving nature, self-control skills for basic physiological indicators that contribute to the preservation and promotion of health, disease prevention;

PC-16: readiness to engage in educational activities to eliminate risk factors and develop healthy lifestyle habits;

*in organizational and managerial activities:*

PC-17: the ability to apply the basic principles of organization and management in the field of protecting the health of citizens, in medical organizations and their structural divisions;

PC-18: readiness to participate in assessing the quality of medical care using the main medical and statistical indicators;

PC-19: ability to organize medical care in emergency situations, including medical evacuation;

*in research activities:*

PC-20: readiness to analyze and publicly present medical information based on evidence-based medicine;

PC-21: ability to participate in scientific research;

PC-22: readiness to participate in the introduction of new methods and techniques aimed at protecting the health of citizens.

#### **4. Scope, structure and content of the state final certification**

The total labor intensity of the state final certification is 3 credits, 108 academic hours.

The distribution of the volume of the state final certification is presented in table 2.

Table 2. – the scope of the state final certification in terms of composition.

| SFC element   | Content of Controlled Results   | Conduct form   | Labor intensity (in hours) |
|---|---|--|----------------------------|
| Interdisciplinary state final certification in the national and regional component "History of Kyrgyzstan", "Kyrgyz language in medicine", "Geography of the Kyrgyz Republic" |   |  |                            |
| The test to check the formation of GCC  | GCC-1, GCC-2, GCC-3   | Computer testing   | 36                         |
| Preparation for and passing the state exam  |   |  |                            |
| Questions and practical tasks of the state final exam   | GCC-4, GCC-5, GCC-6, GCC-7, GCC-8.<br>GPC -1, GPC -2, GPC -3, GPC -4, GPC -5, GPC -6, GPC -7, GPC -8, GPC -9, GPC -10, GPC -11.<br>PC-1, PC-2, PC-3, PC-4, PC-5, PC-6, PC-7, PC-8, PC-9, PC-10, PC-11, PC-12, PC-13, PC-14, PC-15, PC-16, PC-17, PC-18, PC-19, PC-20, PC-21, PC-22. | Computer testing, preparation of answers to theoretical questions, performing a practical task at the bedside of a patient | 72                         |
| <b>Total</b>  | –   | –  | 108                        |

### 5 Fund of evaluation funds for conducting SFC

Table 3. – Passport of the fund of appraisal funds \*

| Controlled competencies (code of competence)  | Planned learning outcomes (knows, able to, skilled)  | Evaluation tools |
|---|--|------------------|
| <b>GCC-1.</b><br>Ability for abstract thinking, analysis, synthesis   | <b>Knows:</b> the main methods, ways and means of obtaining, summarizing and analyzing scientific, reference, statistical and other information  | Computer testing |
|   | <b>Able to:</b> find, analyze, critically evaluate, select and apply information in professional activities  |                  |
|   | <b>Skilled:</b> methods of evaluation and analysis of information, its interpretation, gives his own assessment of the data received, logically and reasonably substantiates his conclusions and conclusions |                  |
| <b>GCC-2.</b><br>The ability to use the foundations of philosophical knowledge to form a worldview position | <b>Knows:</b> the main directions and problems of modern philosophy  | Computer testing |
|   | <b>Able to:</b> note the practical value of certain philosophical provisions, and identify the foundations on which the philosophical concept or system is built   |                  |
|   | <b>Skilled:</b> expression skills and substantiation of one's own position regarding modern socio-humanitarian problems and specific philosophical positions   |                  |
| <b>GCC-3.</b><br>The ability to analyze   | <b>Knows:</b> the main stages in the development of historical sciences, the scientific achieve-   | Computer testing |



|   |  |  |
|---|--|--|
| <p>the main stages and patterns of the historical development of society in order to form a civic position</p>                                  | <p>ments of outstanding scientists, the content of modern discussions on the problems of social development</p> <p><b>Able to:</b> critically perceive, analyze and evaluate historical information, factors and mechanisms of historical changes</p> <p><b>Skilled:</b> skills of respectful and careful attitude to the historical heritage and cultural traditions</p>  |  |
| <p><b>GCC-4.</b><br/>Ability to act in non-standard situations, bear social and ethical responsibility for decisions made</p>                   | <p><b>Knows:</b> the meaning and measure of social and ethical responsibility that arises in case of making wrong decisions in non-standard professional situations</p> <p><b>Able to:</b> make decisions in non-standard situations, observing the principles of social and ethical responsibility</p> <p><b>Skilled:</b> decision-making skills in non-standard situations, excluding negative consequences of a social and ethical nature</p>   | <p><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p>                      |
| <p><b>GCC-5.</b><br/>Readiness for self-development, self-realization, use of creative potential</p>  | <p><b>Knows:</b> strategy, tactics and techniques for actualizing the creative potential of the individual</p> <p><b>Able to:</b> draw up plans for self-development, self-realization, the use of creative potential, taking into account the peculiarities of the motivational-need, cognitive, emotional-volitional spheres of the personality, determine the conditions and time prospects for achieving the desired result of self-development, self-realization, and the use of creative potential</p> <p><b>Skilled:</b> skills in diagnosing the current level of self-development, self-realization, the use of creative potential and assessing one's potential with the help of appropriate tools, ways to actualize one's creative potential in various activities, methods of self-assessment of the level of self-development, self-realization, use of creative potential</p> | <p>Computer testing<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |
| <p><b>GCC-6.</b><br/>The ability to use the methods and means of physical culture to ensure a full-fledged social and professional activity</p> | <p><b>Knows:</b> subject area, system and content of the foundations of a healthy lifestyle, the impact of health-improving systems of physical education on health promotion</p> <p><b>Able to:</b> use the specific knowledge of methods and means of physical culture, organize your life in accordance with socially significant ideas about a healthy lifestyle to ensure full-fledged social and professional activities</p> <p><b>Skilled:</b> the ability to use methods, means and ways of strengthening individual health, increasing functional and motor capabilities</p>  | <p><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p>                      |

|   |  |   |
|---|--|---|
|   | to ensure full-fledged social and professional activities  |   |
| <b>GCC-7.</b><br>Readiness to use first aid techniques, methods of protection in emergency situations   | <b>Knows:</b> the basics of professional activity for developing the need to ensure personal safety and the safety of the environment  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> identify risk in various areas of human activity, find non-standard solutions and be ready to work in suddenly changing conditions   |   |
|   | <b>Skilled:</b> reflexive skills that develop readiness to use first aid techniques, methods of protection in emergency situations   |   |
| <b>GCC-8.</b><br>Readiness to work in a team, tolerantly perceive social, ethnic, confessional and cultural differences   | <b>Knows:</b> world practices of effective organization of group work, lines of behavior of individuals, ethical and etiquette aspects of their professional activities  | <i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i>                      |
|   | <b>Able to:</b> analyze and optimize group work, determine the lines of behavior of an individual to optimize work with a formed group, control the activities of the work team  |   |
|   | <b>Skilled:</b> methods of team management, including individuals with social, ethnic, confessional and cultural differences, methods of improving the efficiency of the team  |   |
| <b>GPC-1.</b><br>Readiness to solve problems of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security | <b>Knows:</b> basic techniques and methods development of specialized programs for solving problems, and the main requirements for the presentation of the results of work in the professional field of activity   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> Modernize standard and develop specialized programs to solve the problems of the professional field of activity, use information, communication and computer technologies to present the results of professional activity  |   |
|   | <b>Skilled:</b> skills in developing specialized programs for solving problems of the professional field of activity, presenting the results of work in the form of printed materials and oral messages  |   |
| <b>GPC -2.</b><br>Readiness to communicate in oral and written forms in Russian and foreign languages to solve the problems of professional activity  | <b>Knows:</b> methods for developing long-term programs of language practice, style features, language features, features of the genre implementation of the studied foreign language  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> to build their own verbal and non-verbal behavior in accordance with the norms of the culture of the Russian and the language being studied, to model situations in professional activity that would require the use of oral and written speech skills of the foreign language being studied |   |

|   |  |   |
|---|--|---|
|   | <b>Skilled:</b> skills to build you-saying that adequately reflects the cultural values of the language, the skills of adapting one's own behavior to the standards of Russian and foreign cultures  |   |
| <b>GPC-3.</b><br>Ability to use the basics of economic and legal knowledge in various spheres of life   | <b>Knows:</b> essence and components of production costs, sources and methods for optimizing costs and profits, skills of legal thinking and legal analysis  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> use the financial and economic information necessary to make informed financial decisions in various areas   |   |
|   | <b>Skilled:</b> the ability to use methods of economic planning and implementation of basic management functions; the ability to independently make lawful, law-abiding decisions  |   |
| <b>GPC-4.</b><br>Ability and readiness to implement ethical and deontological principles in professional activities   | <b>Knows:</b> ethical and deontological aspects of the problems of modern medical practice   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> determine the practical value of certain ethical and deontological principles of the work of a medical doctor  |   |
|   | <b>Skilled:</b> the skills of expressing and substantiating one's own position regarding the ethical and deontological principles of work in pediatrics  |   |
| <b>GPC-5.</b><br>The ability and readiness to analyze the results of their own activities to prevent professional errors                                      | <b>Knows:</b> assessment of diagnostic methods, treatment, possible errors and complications   | <i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i>                      |
|   | <b>Able to:</b> analyze the results of diagnosis, treatment and possible complications of diseases.  |   |
|   | <b>Skilled:</b> skills in assessing methods of diagnosis, treatment and possible complications of diseases   |   |
| <b>GPC-6.</b><br>Readiness to maintain medical records  | <b>Knows:</b> regulatory documentation adopted in healthcare, as well as documentation for assessing the quality and efficiency of medical organizations   | <i>Practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i>  |
|   | <b>Able to:</b> maintain medical records of various nature in medical organizations  |   |
|   | <b>Skilled:</b> methods of maintaining medical records of various nature in outpatient and inpatient institutions  |   |
| <b>GPC-7.</b><br>Readiness to use the basic physical, chemical, mathematical and other natural sciences concepts and methods in solving professional problems | <b>Knows:</b> fundamental and applied issues of modern biochemistry, such as: chemical composition, structures, metabolism and functions of molecular and supramolecular formations; molecular basis of physiological processes and their disorders; mechanisms of energy exchange and energy supply of tissues; mechanisms of regulation and integration of | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |

|  |   |   |
|--|---|---|
|  | <p>metabolism, providing metabolic and physiological homeostasis of the body</p> <p><b>Able to:</b> explain the molecular mechanisms of the features of the structure and functional activity of the main organs and tissues; perform laboratory work, fill out the study protocol, evaluate its results; solve test tasks and situational tasks based on theoretical knowledge.</p> <p><b>Skilled:</b> the skills of biochemical thinking, the application of biochemical knowledge to understanding the molecular mechanisms of the pathogenesis of diseases; skills in assessing the diagnostic and prognostic significance of the results of a biochemical analysis of blood, saliva, urine; skills of independent work with reference, educational and scientific literature</p> |   |
| <p><b>GPC-8.</b><br/>Readiness for the medical use of drugs and other substances, and their combinations in solving professional problems.</p>                         | <p><b>Knows:</b> about the direction and problems of prescribing drugs for various diseases</p> <p><b>Able to:</b> prescribe medications for various diseases</p> <p><b>Skilled:</b> skills in prescribing drugs for various diseases</p>   | <p><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p>                       |
| <p><b>GPC-9.</b><br/>The ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems.</p> | <p><b>Knows:</b> the main ways of differentiation and formulation of the conclusion based on the results of the assessment of morphofunctional, physiological processes and pathological conditions of the patient</p> <p><b>Able to:</b> note the practical value of specific morphofunctional, physiological processes and pathological conditions of the human body</p> <p><b>Skilled:</b> the skills of assessing, differentiating the main morphofunctional, physiological and pathological conditions of the human body and their own justification</p>   | <p>Computer testing.<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |
| <p><b>GPC-10.</b><br/>Readiness to ensure the organization of patient care and the provision of primary pre-hospital health care;</p>                                  | <p><b>Knows:</b> basic methods of organizing patient care and providing primary pre-hospital health care.</p> <p><b>Able to:</b> note the practical value of specific methods of organizing patient care and providing primary pre-hospital health care.</p> <p><b>Skilled:</b> skills in assessing, differentiating the main methods of organizing patient care and providing primary pre-hospital health care.</p>  | <p><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p>                       |
| <p><b>GPC-11.</b><br/>Readiness for the use of medical devices provided-</p>   | <p><b>Knows:</b> use of medical devices provided for by the procedures for providing medical care to patients</p>   | <p><i>Questions for the state exam, practical tasks at the curation at the</i></p>  |

|   |  |   |
|---|--|---|
| ed for by the procedures for the provision of medical care  | <b>Able to:</b> apply medical devices provided for by the procedures for providing medical care to patients  | <i>bedside of the patient. Student's answers to additional questions of the commission.</i>   |
|   | <b>Skilled:</b> skills in the use of medical devices provided for by the procedures for providing medical care to patients   |   |
| <b>PC-1.</b><br>The ability and readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early diagnosis, identification of the causes and conditions for their occurrence and development, as well as aimed at eliminating harmful effects on human health of environmental factors. | <b>Knows:</b> a set of measures aimed at maintaining and strengthening health, the formation of a healthy lifestyle and factors affecting human health   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> eliminate the causes of the occurrence and spread of diseases  |   |
|   | <b>Skilled:</b> a set of measures aimed at the formation of a healthy lifestyle, the preservation and promotion of health and the prevention of diseases   |   |
| <b>PC-2.</b><br>Ability and readiness to conduct preventive medical examinations, medical examinations and dispensary observation   | <b>Knows:</b> methods of prevention and types of clinical examination of therapeutic diseases  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> conduct medical examination and prevention of major therapeutic diseases   |   |
|   | <b>Skilled:</b> skills of clinical examination and prevention in therapeutic patient   |   |
| <b>PC-3.</b><br>Ability and readiness to carry out anti-epidemic measures, organize the protection of the population in foci of especially dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies.  | <b>Knows:</b> a set of measures aimed at the formation of a healthy lifestyle, the preservation and promotion of health and the prevention of diseases<br>emergency medical care algorithm;<br>main medical diagnostic and therapeutic                               | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> independently choose a set of measures for the formation of a healthy lifestyle,<br>features of the organization of medical care during mass and sporting events, in emergency situations and in case of disasters in peacetime and wartime          |   |
|   | <b>Skilled:</b> the skills of complex measures aimed at maintaining and strengthening health and the formation of a healthy lifestyle, conducting anti-epidemic measures, organizing the protection of the population in foci of especially dangerous infections, in |   |

|   |  |   |
|---|--|---|
|   | case of deterioration of the radiation situation, natural disasters and other emergencies  |   |
| <b>PC-4.</b><br>Ability and readiness to apply social and hygienic methods for collecting and medical and statistical analysis of information on population health indicators.  | <b>Knows:</b> population health indicators, factors that shape human health and the impact of occupational, climatic, endemic factors on human health.   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> assess living conditions, according to hygiene requirements, the ability to collect social and hygienic information and medical and statistical analysis of morbidity              |   |
|   | <b>Skilled:</b> methods of sanitary and educational work among the population on primary prevention of diseases and conduct a medical and statistical analysis of information on health indicators |   |
| <b>PC-5.</b><br>Readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the presence or absence of the disease. | <b>Knows:</b> indications and contraindications for additional clinical and paraclinical research methods.   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> use methods and means of medical examination, diagnostic measures.   |   |
|   | <b>Skilled:</b> the skills of examining patients, carrying out the necessary diagnostic measures, skills in making a clinical diagnosis  |   |
| <b>PC-6.</b><br>The ability to determine the main pathological conditions, symptoms, syndromes of diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision.            | <b>Knows:</b> the main syndromes of damage to organs and systems and their specificity in the differential diagnosis of various nosological forms in accordance with (ICD).                        | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> note the practical value when comparing specific pathological syndromes, symptoms of diseases  |   |
|   | <b>Skilled:</b> skills of own substantiation of combining various symptoms, syndromes into nosological forms in accordance with (ICD)  |   |
| <b>PC-7.</b><br>Readiness to conduct an examination of temporary disability, participate in a medical and social examination, ascertain the biological death of a person  | <b>Knows:</b> expert assessment of temporary disability before biological death.   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> to differentiate temporary disability up to the ascertainment of biological death.   |   |
|   | <b>Skilled:</b> skills of examination of temporary incapacity for work, until the ascertainment of biological death.   |   |
| <b>PC-8.</b><br>The ability to determine the tactics of managing patients with various nosological forms  | <b>Knows:</b> know the main directions and problems in the management of patients with various diseases  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient.</i>  |
|   | <b>Able to:</b> to note the practical value of individual tactics of managing patients with var-   |   |

|  |  |   |
|--|--|---|
|  | ious nosological forms   | <i>Student's answers to additional questions of the commission.</i>   |
|  | <b>Skilled:</b> skills in determining the tactics of managing patients with diseases   |   |
| <b>PC-9.</b><br>Readiness to manage and treat patients with various nosological forms on an outpatient basis and in day hospital conditions.   | <b>Knows:</b> methods of management and treatment of patients with various nosological forms in outpatient and day hospital conditions   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|  | <b>Able to:</b> manage and treat patients on an outpatient and day hospital basis  |   |
|  | <b>Skilled:</b> skills in managing and treating patients with various diseases on an outpatient basis and in day hospital conditions   |   |
| <b>PC-10.</b><br>Readiness to provide primary health care to children with sudden acute illnesses, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care | <b>Knows:</b> general principles for the treatment of ophthalmic and ENT diseases, taking into account their etiology and pathogenesis; knowledge of pharmacological groups and their interaction with each other  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|  | <b>Able to:</b> assess the stage of the disease and prescribe therapy appropriate to the stage of the disease  |   |
|  | <b>Skilled:</b> master the skills of etiological and pathogenetic therapy in the treatment of visual organs and ENT diseases, depending on the severity of the disease on an outpatient basis  |   |
| <b>PC-11.</b><br>Readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention   | <b>Knows:</b> emergency medical care algorithm; basic medical diagnostic and therapeutic measures to provide first aid in emergency conditions requiring urgent medical intervention   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|  | <b>Able to:</b> choose an individual type of care for the treatment of the patient in accordance with the situation: first aid, ambulance, hospitalization   |   |
|  | <b>Skilled:</b> a complex of resuscitation measures for acute respiratory and circulatory disorders, with clinical death; know modern methods of resuscitation and intensive care in providing care to patients and victims in critical conditions of various etiologies |   |
| <b>PC-12.</b><br>Readiness to conduct a physiological pregnancy, childbirth  | <b>Knows:</b> the main signs of pathological conditions during pregnancy and childbirth; the procedure for providing medical care in obstetrics and gynecology   | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|  | <b>Able to:</b> under the guidance of a doctor, develop a plan and prognosis of childbirth, draw up a plan for the prevention of complications.  |   |
|  | <b>Skilled:</b> skills of conducting physiological pregnancy and childbirth.   |   |

|  |   |   |
|--|---|---|
| <p><b>PC-13.</b><br/>Readiness to participate in the provision of medical care in emergency situations, including participation in medical evacuation.</p>   | <p><b>Knows:</b> emergency medical care algorithm; the main medical diagnostic and therapeutic measures for the provision of first aid in case of urgent and life-threatening conditions in an emergency</p> <p><b>Able to:</b> analyze the features of the organization of medical care during mass and sporting events, in emergency situations and disasters in peacetime and wartime</p> <p><b>Skilled:</b> the ability to choose an individual type of care for treating the patient in accordance with the situation: first aid, ambulance, hospitalization</p>   | <p>Computer testing.<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |
| <p><b>PC-14.</b><br/>Readiness to determine the need for the use of natural healing factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and spa treatment</p>  | <p><b>Knows:</b> skills to assess the effectiveness of therapeutic measures at all stages of patient rehabilitation</p> <p><b>Able to:</b> assess the stage of the disease and is able to prescribe the necessary rehabilitation complexes, taking into account the form, stage and phase of the disease.</p> <p><b>Skilled:</b> the skills of prescribing non-drug methods of treating patients of various profiles, correctly assess the tolerability, adequacy and effectiveness of ongoing rehabilitation measures</p>  | <p>Computer testing.<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |
| <p><b>PC-15.</b><br/>Readiness to educate patients and their relatives on the basic hygiene measures of a health-improving nature, the skills of self-control of the main physiological indicators that contribute to the preservation and promotion of health, disease prevention</p> | <p><b>Knows:</b> population health indicators, factors that shape human health and the impact of occupational and climatic, endemic factors on human health</p> <p><b>Able to:</b> conduct training of patients and their relatives on basic hygienic and immunological measures of a health-improving nature (organization of rational nutrition, work and rest regimen, reduction of meteorological diseases through physical education, hardening, etc.)</p> <p><b>Skilled:</b> rules for the prevention of cardiovascular diseases, lung diseases, oncological diseases, digestive system, meteorological diseases, preventive measures to increase the body's resistance to adverse environmental factors.</p> | <p>Computer testing.<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |
| <p><b>PC-16.</b><br/>Readiness for educational activities to eliminate risk factors and the formation of healthy lifestyle skills</p>  | <p><b>Knows:</b> a set of measures aimed at maintaining and strengthening health, educational activities to form healthy lifestyle skills and eliminate risk factors</p> <p><b>Able to:</b> eliminate the causes of the emergence and spread of diseases, readiness for educational activities to eliminate risk factors and healthy lifestyle skills</p> <p><b>Skilled:</b> educational activities on the formation of healthy lifestyle skills, a set of</p>  | <p>Computer testing.<br/><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i></p> |



|   |  |   |
|---|--|---|
|   | measures aimed at promoting a healthy life-style   |   |
| <b>PC-17.</b><br>Ability to apply the basic principles of organization and management in the field of public health, in medical organizations and their structural divisions. | <b>Knows:</b> principles of management in the field of health of citizens, medical organizations and their structural divisions  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> apply the principles of management of medical organizations and their structural divisions   |   |
|   | <b>Skilled:</b> basic principles of management of medical organizations and their structural divisions   |   |
| <b>PC-18.</b><br>Readiness to participate in assessing the quality of medical care using the main medical and statistical indicators  | <b>Knows:</b> analyze medical and statistical indicators and their interpretation  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> evaluate the quality of medical care using the main medical and statistical indicators   |   |
|   | <b>Skilled:</b> a set of measures to assess the quality of medical care using statistical indicators   |   |
| <b>PC-19.</b><br>Preparedness to participate in the provision of medical care in emergency situations, including participation in medical evacuation.                         | <b>Knows:</b> emergency medical care algorithm; the main medical diagnostic and therapeutic measures for the provision of first aid in case of urgent and life-threatening conditions in an emergency          | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> analyze the features of the organization of medical care during mass and sporting events, in emergency situations and disasters in peacetime and wartime                                       |   |
|   | <b>Skilled:</b> the ability to choose an individual type of care for treating the patient in accordance with the situation: first aid, ambulance, hospitalization  |   |
| <b>PC-20.</b><br>Readiness to analyze and publicly present medical information based on evidence-based medicine   | <b>Knows:</b> the main directions of evidence-based medicine and apply them in practice  | Computer testing.<br><i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|   | <b>Able to:</b> analyze and publicly present medical information, taking into account evidence-based medicine  |   |
|   | <b>Skilled:</b> skills of expressing and substantiating one's own position regarding medical information, based on evidence-based medicine   |   |
| <b>PC-21.</b><br>Ability to participate in scientific research  | <b>Knows:</b> various forms and methods of scientific knowledge, mathematical methods for solving intellectual problems  | <i>Student's answers to additional questions of the commission.</i>   |
|   | <b>Able to:</b> use educational, scientific, popular science literature, the Internet for professional activities; analyze issues of general pathology and modern theoretical concepts and trends in medicine. |   |
|   | <b>Skilled:</b> the skills of conducting discussions and polemics, practical analysis of the logic of various kinds of reasoning; skills in re-  |   |

|  |  |  |
|--|--|--|
|  | search work, in working with primary sources and scientific literature   |  |
| <b>PC-22.</b><br>Readiness to participate in the introduction of new methods and techniques aimed at protecting the health of citizens | <b>Knows:</b> various types and methods of generalization and comprehension of data from various medical sciences from general physiological and natural science positions | <i>Questions for the state exam, practical tasks at the curation at the bedside of the patient. Student's answers to additional questions of the commission.</i> |
|  | <b>Able to:</b> use the ability to generalize and comprehend the data of various medical sciences from general physiological and natural science positions                 |  |
|  | <b>Skilled:</b> principles of generalization and comprehension of data from various medical sciences from general physiological and natural science positions              |  |

## **6. The program of Interdisciplinary state final certification in the national and regional component "History of Kyrgyzstan", "Kyrgyz language in medicine", "Geography of Kyrgyzstan" and recommendations for students to prepare for it**

### **6.1 Test for checking the formation of general cultural competencies**

An element of the state exam is a test to check the formation of general cultural competencies. Verification of general cultural competencies is carried out in the form of testing. The test contains 30 questions. The test will take no more than 50 minutes to complete.

The maximum number of points is 30. For each correct answer, the student receives 1 point, for an incorrect one - 0 points.

### **6.2 The form of the state exam**

Computer testing.

### **6.3 A list of control tasks or other materials submitted for verification on the SE**

*The discipline "History of Kyrgyzstan":*

1. Kyrgyz and Kyrgyzstan in antiquity and the early Middle Ages.
2. Kyrgyz and Kyrgyzstan in the X-XVIII centuries.
3. Kyrgyzstan is part of the Russian Empire and the USSR.
4. The sovereign Kyrgyz Republic.

*The discipline "Geography of Kyrgyzstan":*

1. Physical geography of the Kyrgyz Republic.
2. Economic and social geography of the Kyrgyz Republic.

*The discipline "Kyrgyz language and literature":*

1. Communication in the personal and household spheres.
2. Communication in the social sphere.
3. General information about Kyrgyzstan.
4. Cultural and historical features of Kyrgyzstan.
5. The subject and the history of the formation of the specialty.
6. Basic concepts and outstanding figures in the chosen specialty.
7. Business papers in professional activity.
8. The main stages of the development of Kyrgyz literature.

### **6.4 Recommendations for students to prepare for the SE.**

When preparing for the exam in the discipline "History of Kyrgyzstan", special attention should be paid to the following points:

It is necessary to study the actual material of the discipline by topic, memorizing dates and highlighting the role of historical figures in the events of the epoch.

It is useful to draw up a schematic plan for the development of the historical process with the identification of turning points.

To highlight the following problems: the Saks and their struggle against the conquerors, the Usun state, the first mention of the ethnonym Kyrgyz, the ancient Turks, the great power of the Kyrgyz, the Karakhanid Kaganate, the Haidu state, the ethnogenesis of the Kyrgyz people, the Dzungarian Khanate, the Kokand Khanate, the annexation of Kyrgyzstan to Russia, the uprising of 1916, the Soviet period, sovereign Kyrgyzstan.

When preparing for the exam in the discipline "Geography of Kyrgyzstan", special attention should be paid to the following points: it is necessary to study the material of the discipline by topic. Pay attention to categories, formulations that reveal the content of certain phenomena and processes, scientific conclusions and practical recommendations for their application.

To highlight such problems as the impact of human economic activity on nature, the specifics of the geographical location and administrative-territorial structure of Kyrgyzstan.

When preparing for the exam in the discipline "Kyrgyz language and literature", special attention should be paid to the following points: it is necessary to study the material of the discipline by topic. Pay attention to categories, formulations that reveal the content of certain phenomena and processes, scientific conclusions and practical recommendations for their application.

The objectives of the discipline "Kyrgyz language and literature" are:

- for native speakers (Kyrgyz) who graduated from a Russian-speaking school - achievement of the common European classification - proficiency level A1-B1; for students who graduated from a Kyrgyz school - proficiency level B2; as well as the formation and consolidation of students' broad understanding of the characteristic features of the historical and literary process in Kyrgyzstan.

- for non-native speakers (Russian-speaking students) who did not study the Kyrgyz language at school (citizens of the UIS countries) - A1-A2 level; for those who studied the Kyrgyz language at school - A2 level; as well as the formation and consolidation of students' understanding of the characteristic features of the historical and literary process in Kyrgyzstan.

When preparing for the state exam, students need to study the basic literature, familiarize themselves with additional literature, new publications in periodicals: magazines, newspapers, etc.

### [The program of interdisciplinary final state certification in the specialty "General Medicine"](#)

#### **7. The program of the final interdisciplinary exam and recommendations for students to prepare for it.**

The state interdisciplinary exam in the specialties "*General Medicine*" provides for the assessment of theoretical and practical preparedness based on state requirements for a minimum content and level of graduate training.

##### **7.1 State exam form**

The state interdisciplinary exam in the specialty "*General Medicine*" is carried out in stages and includes the following mandatory certification tests:

- checking the level of theoretical preparedness by means of a test exam on a blank or computer basis – I stage;
- checking the level of development of practical skills – II stage;
- assessment of the ability to solve specific professional problems during an oral interview – III stage.

##### **7.2 The list of control tasks or other materials submitted for verification at the State Examination.**

The elements of the final interdisciplinary exam are:

**I stage. Computer-based blank testing** to verify the formation of general cultural, general professional and professional competencies.

For **testing**, standard test tasks are used, approved by the Ministry of Health of the Russian Federation and supplemented by local tests that reflect regional specifics. Their processing is carried out using a special computer program, which made it possible to randomly prepare individual test tasks for each of the graduates, and then quickly analyze them. Due to this, at the testing stage, the possibility of a subjective approach or technical errors in the assessment of knowledge is excluded. Each graduate on testing receives an individual test task containing 100 questions. Criteria for evaluating test items: up to 70 points - unsatisfactory, from 71 to 80 - satisfactory, from 81 to 90 - good, and from 91 to 100 - excellent.

**II stage. Curation at the bedside of the patient** to verify general professional and professional competencies. The practical assessment tests that make up the final interdisciplinary examination should be conducted at the patient's bedside, using simulators, dummies, phantoms, instruments, equipment, modular and situational clinical tasks, ECG, radiographs, laboratory data, slides, recipes and a demonstration of one or more practical skills.

**III stage. Oral survey** to check general professional and professional competencies. When conducting a final interdisciplinary oral exam, students receive exam tickets drawn up in accordance with the approved exam program, containing tasks that the examinees must complete.

- The structure of the examination ticket includes questions on academic disciplines (modules), the results of which are of decisive importance for the professional activities of graduates:

- *Internal illnesses;*
- *Surgical diseases;*
- *Obstetrics and gynecology;*
- *Interdisciplinary situational task.*

Recommended literature, revealing the content of examination questions, typical practical tasks, from various sections - disciplines of internal medicine, is presented in Table 4., Table 5.

Table 4 - Recommended literature in preparation for the SFC in the sections of internal diseases

| № question                          | The content of the question       | Recommended literature  |
|-------------------------------------|-----------------------------------|---|
| <b>Section 1. Internal diseases</b> |                                   |   |
| 1                                   | Propaedeutic of internal diseases | 1. Bates B. Guide to Physical Examination and History taking LWW / B.B. Bates. - 15 edition, 2021. - 430 p.<br>2. Douglas G. Clinical examination / Graham Douglas, Fiona Nicol Macleod. - 15th edition, 2019. - 440 p.<br>3. Principles of Internal Medicine / [Anthony S. Fauci, Braunwald, Kasper, Longo, Jameson, Loscalzo Harissons]. - 17th edition, 2012. - 2650 p.  |
| 2                                   | Faculty therapy                   | 1. Gary D. Hammer Pathophysiology of Disease: An Introduction to Clinical Medicine / Gary D. Hammer, Stephen J. McPhee. - 2018. - 832 p.<br>2. Harrison's Principles of Internal Medicine / [J. Larry Jameson, Anthony Fauci, Dennis Kasper, and others]. - 20th edition, 2018. - Vol.1., Vol.2. - 3790 p.<br>3. John Hampton The ECG Made Easy / John Hampton. - 8th edition, 2019. - 208 p.<br>4. Maxine A. Papadakis Current Medical Diagnosis & Treatment / Maxine A. Papadakis, Stephen J. McPhee, Michael W. Rabow. - 2019. - 1904 p. |
| 3                                   | Hospital therapy                  | 1. Andrew B. Symons Differential Diagnosis of Common Complaints / Andrew B. Symons, Robert H. Seller. - 7th edition, 2018. - 480 p.<br>2. Wilkinson I. Oxford Handbook of Clinical Medicine / I. Wilkinson, J.M. Longmore. - 10th edition, 2017. - 928 p.   |

|     |  |   |
|-----|--|---|
| 4   | Polyclinic therapy                         | 1.Lyons M.D. The Washington Manual of Outpatient Internal Medicine Third Edition / Maureen D. Lyons, Peter McDonnell. – 2022. – 1000 p.<br>2.Sheila Sanning Shea Urgent and Ambulatory Care / Sheila Sanning Shea, Karen Sue Hoyt.- 2nd edition, 2020. – 180 p.<br>3.Sydney E. Handbook of Outpatient Medicine / Elana Sydney, Eleanor Weinstein, Lisa M. Rucker. – 2018. – 578 p.  |
| 5   | Occupational diseases                      | 1.Artamonova V.G. Occupational diseases. Textbook for students of medical institutes. / V.G. Artamonova, N.N. Mukhin. - M., Medicine, 2009. – 480 p.<br>2.Komleva L.M. Vibration disease. Tutorial / L.M. Komleva. - Moscow, 2008.  |
| 6   | Endocrinology                              | 1.Harrison's Principles of Internal Medicine / [J. Larry Jameson, Anthony Fauci, Dennis Kasper, and others]. – 20th edition, 2018. - Vol.1., Vol.2. - 3790 p.<br>2.Melmed S.Williams Textbook of Endocrinology / Shlomo Melmed, Robert Hardin Williams, - 12th edition, 2011. – 1897 p.<br>3.Pozzilli P. Imaging in endocrinology / P. Pozzilli. – 2014. – 249 p.<br>4.Skyler J.S. Atlas of Diabetes / J.S. Skyler. - 4th edition, 2012. – 422 p. |
| 7.  | Clinical pharmacology                      | 1.Brunton L. Goodman&Gilman's. The pharmacological basis of therapeutics / L. Brunton, B. Knollmann. - 14 edition, 2023. – 1408 p.<br>2.Tripathi K.D. Essentials of Medical Pharmacology / K.D. Tripathi. – 2013. – 1002 p.<br>3.Whalen K. Lippincott Illustrated Reviews: Pharmacology / K. Whalen. - 2015. 880 p.   |
| 8.  | Family medicine                            | 1.Paulman P.M. Family Medicine. Principles and Practice. Eighth Edition / Paul M. Paulman. - Cham, Switzerland: Springer International Publishing Switzerland, 2022. -2017 p.   |
| 9.  | Neurology and Neurosurgery                 | 1.Eelco F. M. Examining Neurocritical Patients, F.M. Eelco. Wijdicks. - 2021. – 211 p.<br>2.Kulkarni K. Oxford Handbook of Key Clinical Evidence / K. Kulkarni, J. Harrison, M. Baguneid, B. Prendergast. - 2016. – 974 p.<br>3.Raksin P.B. Acute Care Neurosurgery by Case Management, Pearls and Pitfalls / P.B. Raksin (ed.). - 2022. – 357 p.   |
| 10. | Dermatovenerology                          | 1.Graham-Brown R., Tony Burns Lecture notes: Dermatology / R.Graham-Brown, T.Burns. - 10th ed., 2011. – 232 p.<br>2.Griffiths C.Rook's Textbook of Dermatology / C. Griffiths, J. Barker, T. Bleiker and oth. - 10th ed., 2011. – 4864 p.<br>3.Mahbub M.U. Dermatology at a glance / M. M.U. Chowdhury, R.P. Katugampola, A.Y. Finlay. - Wiley-Blackwell, 2019. – 192 p.  |
| 11. | Psychiatry, med. psychology, psychotherapy | 1.3. Johnstone E.C. Companion to psychiatric studies. / E.C. Johnstone. - 2004 . – 836 p.<br>2.Diagnostic and statistical manual of mental disorders – 2013. – 992 p.<br>3.Rana M.H. A handbook of Behavioural sciences for Medical and Dental Students / M.H. Rana. - 2013. – 116 p.   |
| 12. | Infectious disease                         | 1.Kasper D.L. Harrison's Infectious diseases / D. L. Kasper, A.S. Fauci. - 2018. – 1312 p.  |
| 13. | Medical rehabilitation.                    | 1. Alymkulov D.A. Medical control and the basics of physiotherapy exercises / D.A. Alymkulov, KRSU 2012. – 95 p.<br>2. General physiotherapy. Medical rehabilitation.Traditional medicine of the East and the West. – 2016.<br>3. Madden C. Netter's Sports Medicine. Medical rehabilitation of the respiratory and cardiovascular systems Balneotherapy for ischemic heart   |

|  |                                      |  |
|--|--------------------------------------|--|
|  | Sports Medicine                      | disease / C. Madden, M. Putukian, C. Young. - 2010. – 816 p.<br>4. Ponomarenko G.N. Medical rehabilitation / G.N. Ponomarenko. - GEOTAR-Media., 2014. – 360 p.<br>5. Saralinova G.M., Abdyldaeva S.O., Alymkulov, R.D. Kalyuzhnaya O.A. Physical therapy / G.M. Saralinova, S.O. Abdyldaeva, R.D. Alymkulov, et others. – KRSU, Bishkek – 2018.<br>6. Saralinova G.M., Khamzaev B.J., Karagulova M.Sh. Physiotherapy for diseases and injuries of the musculoskeletal system / G.M. Saralinova, B.J. Khamzaev, M.Sh. Karagulova. – KRSU, Bishkek. – 2016.<br>7. Bryan E.. The Comprehensive Manual of Therapeutic Exercises Orthopedic and General Conditions / E. Bryan. – 2018. - 600 p. |
| 14.  | Phthisiology                         | 1. Shevchenko O.S. Phthisiology / O.S. Shevchenko, S.L. Matvyeyeva, O.I. Choporova. - 2011. – 108 p.   |
| 15.  | Radiation diagnostics                | 1. Harrison's Principles of Internal Medicine / [J. Larry Jameson, Anthony Fauci, Dennis Kasper, and others]. – 20th edition, 2018. - Vol.1., Vol.2. - 3790 p.<br>2. Munjal Y.P. API Textbook of Medicine/ Y.P. Munjal. - Vol. 1, Vol. 2. – 2015. 3038 p.  |
| 16.  | General care of therapeutic patients | 1. Alano A. Basic Clinical Nursing Skills / A. Alano. - 2017. – 380 p.   |
| 17.  | Gerontology                          | 1. Harrison's Principles of Internal Medicine / [J. Larry Jameson, Anthony Fauci, Dennis Kasper, and others]. – 20th edition, 2018. - Vol.1., Vol.2. - 3790 p.<br>2. Jeffrey B. H. Hazzard's Geriatric Medicine And Gerontology / J.B. Halter, J.G. Ouslander, S.Studenski,et others. – 2016/ - 2304 p.  |
| 18   | Diagnostic and treatment standards   | 1. Dzhaylobayeva K.A. Questions of diagnostics and treatment in gastroenterology: Studies / K.A. Dzhaylobayeva, D.M. Mirbakiyeva, I.S. Sabirov. - Bishkek: KRSU 2016. – 324 p.<br>2. Kaganov B. Clinical nutrition at chronic diseases / B. Kaganov, H.Sharafetdinov. - Eksmo, 2014. - 322 p.<br>3. Moses V.S. Internal diseases with fundamentals of evidential medicine and clinical pharmacology / V.S. Moses, Zh.D. Kobalava, S.V. Moiseyev. - "GEOTAR-media, 2010. – 688 p.<br>4. Shulutko B.I. Standards of diagnostics and treatment of internal diseases / B.I. Shulutko, S.V. Makarenko. - "Elbi-S P", 2005. – 800 p.   |
| 19   | Evidence-based medicine              | 1. Greenhalkh T. Fundamentals of evidence-based medicine / T. Greenhalkh. - 4-edition. Per. s English. Moscow, Geotar-Med., 2019. - 330 p.<br>2. Kameshwar Prasad Fundamentals of Evidence-Based Medicine. Second Edition. / Kameshwar Prasad. - Springer India Heidelberg. New York. 2013. - 165 p.   |
| <b>1.1. Medical and preventive disciplines</b> |                                      |  |
| 20   | Hygiene                              | 1. Guidelines for Drinking-water Quality, 4th Edition, WHO.-2011. - 564 p.<br>2. Health care organization: An educational-methodical manual / R.O. Kasymova, M.R Azhimatova, M.J.Kudayarova, I.A. Abdigulova. - Kyrgyz-Russian Slavic University Medical Faculty Bishkek, 2021. – 103 p.<br>3. Industrial Hygiene Control of Airborne Chemical Hazards, Second Edition 2nd Edition / William Pependorf CRC Press Published July 12, 2019 Reference - 696 Pages - 332 B/W Illustrations<br>4. Jeffery S. Soil Borne Diseases of Humans /. S. Jeffery, W.H. van der  |

|                                     |  |   |
|-------------------------------------|--|---|
|                                     |  | <p>Putten. - 2011. – 56 p.</p> <p>5. Protecting surface water for health. Identifying, assessing and managing drinking-water quality risks in surface-water catchments. WHO.- 2016. - 196 p.</p> <p>6. Suryakantha A.H.; Textbook of Community Medicine with Recent Advances / A.H. Suryakantha. - 4th Edition, 2020. – 941 p.</p> <p>7. Woolfolk, A. Child and adolescent development / A. Woolfolk, N.E. Perry. - Upper Saddle River, NJ: Pearson Education, 2018. – 53 p.</p>  |
| 21                                  | Epidemiology                                       | <p>1. Farmer R. Lecture notes on epidemiology and public health medicine 4th ed. / R. D. T. Farmer, D. L. Miller – 1997. – 288 p.</p> <p>2. Park J.E. Community medicine / J. E. Park. - 2015. – 384 p.</p> <p>3. Park K. Preventive and social medicine / K. Park. – 2016. – 976 p.</p> <p>4. Ray M. Merrill “Introduction to Epidemiology / Ray M. Merrill. - Jones &amp; Bartlett Learning, 2016. – 348 p.</p> <p>5. Vincent Lo Re III Infectious diseases / Vincent Lo Re III. - Liverpool, USA, 2006. - 395 p.</p>   |
| 22                                  | Public health and healthcare, healthcare economics | <p>1. Bolbachan O.A. Public Health and Healthcare: A Study Guide / O.A. Bolbachan, R.S. Rozyeva. - Bishkek: Publishing house of KRSU 2017. – 184 p.</p> <p>2. Kasiev N.K. Medical statistics / N.K. Kasiev, O.A. Bolbachan and etc. - Bishkek KRSU 2022. – 140 p.</p> <p>3. Kasiev N.K. Public health and healthcare: textbook / N.K. Kasiev, O.A. Bolbachan and etc. – KRSU, 2016. – 138 p.</p> <p>4. Rozyeva R.S. Medical statistics: study guide / R.S. Rozyeva, O.A. Bolbachan, G.I. Ishenova, et others. - Bishkek KRSU 2014. – 160 p.</p>   |
| <b>Section 2. Surgical diseases</b> |  |   |
| 1.                                  | General surgery                                    | <p>1. Baiely H. Short practice of Surgery / H. Bailey, R.J. McNeill Love. - 2013. – 1517 p.</p> <p>2. Diagnostic Surgical Pathology. - 2017. – 2928 p.</p> <p>3. Shenoy K.Rajgopal. Manipal Manual of Surgery / Shenoy K.Rajgopal.. - 2014. – 1196 p.</p>   |
| 2                                   | Faculty surgery                                    | <p>1. Baiely H. Short practice of Surgery / H. Bailey, R.J. McNeill Love. - 2013. – 1517 p.</p> <p>2. Diagnostic Surgical Pathology. - 2017. – 2928 p.</p> <p>3. Shenoy K.Rajgopal. Manipal Manual of Surgery / Shenoy K.Rajgopal.. - 2014. – 1196 p.</p>   |
| 3.                                  | Hospital surgery                                   | <p>1. Baiely H. Short practice of Surgery / H. Bailey, R.J. McNeill Love. - 2013. – 1517 p.</p> <p>2. Diagnostic Surgical Pathology. - 2017. – 2928 p.</p> <p>3. Shenoy K. Rajgopal. Manipal Manual of Surgery / Shenoy K. Rajgopal. - 2014. – 1196 p.</p>  |
| 4.                                  | Pediatric surgery                                  | <p>1. Abbuhl S.B. Pediatric Surgery Handbook / S.B. Abbuhl. - 2nd edition, 2017. – 480 p.</p> <p>2. Coran A.G. Pediatric Surgery / A.G. Coran, N.S. Adzick, Th.M. Krummel, and others. - 7th edition, 2012. – 848 p.</p> <p>3. Holcomb G.W. III Ashcraft's Pediatric Surgery / G. W. Holcomb III, J. P. Murphy, D.J. Ostlie. - 6th edition, 2020/ - 992 p.</p> <p>4. Keith W. Principles and Practice of Pediatric Surgery / W. Keith, W. Ashcraft, J. P. Murphy. - 2nd edition, 2020. – 1868 p.</p> <p>5. Polin R.A. Pediatric Surgery Secrets / R.A. Polin, M.R. Stephens. - 2nd edition, 2020. – 652 p.</p> <p>6. Spitz L. Operative Pediatric Surgery / L. Spitz and A. Coran. - 7th edi-</p> |

|     |  |  |
|-----|--|--|
|     |  | tion, 2013. – 1128 p.  |
| 5.  | Urology  | 1. Brady H. Therapy in Nephrology and Hypertension / H. Brady, C. Wilcox. - 2003. – 717 p.<br>2. Partin A.W. Campbell-Walsh Urology / A.W. Partin, C.A. Peters, L.R. Kavoussi et others. - 12th Edition, 2017. – 600 p.  |
| 6.  | Topographic anatomy and operative surgery      | 1. Agur A.M.R. Grant's Atlas of Anatomy / A.M.R. Agur, A.F. Dalley. – 2009. – 864 p.<br>2. Delaney C. Netter's Surgical Anatomy and Approaches. / C. Delaney. – 2014. 688 p.<br>3. Eder D. Laboratory Atlas of Anatomy & Physiology / Eder D. – 2008. – 192 p.<br>4. Gabitov V.H. Short course of lectures of topographic anatomy and operative surgery: Textbook / Gabitov V.H., Akramov E.H., Beisembaev A.A. -NPart 1, Part 2, Altyn Print, 2014.<br>5. Longenbaker S.N. Mader's Understanding Human Anatomy & Physiology / S.N. Longenbaker. – 2011. – 512 p.<br>6. Tortora G.J. Principles of Anatomy & Physiology / G.J. Tortora. – 2012. – 1248 p.<br>7. Tortora G.J. Principles of Human Anatomy / Gerard J. Tortora, Mark Nielsen - 2012. – 1088 p.                                       |
| 7.  | Otorhinolaryngology                            | 1. Dhingra P.L. Diseases of Ear, Nose & Throat and Head & Neck Surgery (ENT) / P.L. Dhingra, Sh. Dhingra. - 8th Edition, 2021. – 606 p.<br>2. Dhingra P.L. Manual of Clinical Cases in Ear, Nose and Throat / P.L. Dhingra. - 2nd Edition, 2021. – 168 p.  |
| 8.  | Ophthalmology                                  | 1. Bazarbaeva Ch.S. Course of Lectures on Ophthalmology. – KSMA. - Bishkek, 2017.<br>2. Cuiiom R.D. The Wills eye manual:office and emergency room diagnosis and treatment of eye disease / R.D. Cullom, Jr.B. Chang. - 5th ed., 2015. – 489 p.<br>3. Fundamentals And Principles Of Ophthalmology. – American Academy of Ophthalmology. – San Francisco, 2019. – 455 p.<br>4. Jogi R. Basic Ophthalmology / Renu Jogi. - 8th ed., 2017. – 580 p.<br>5. Kanski J.J. Clinical Ophthalmology / Kanski Jack J. – 7th ed., 2016. – 733 p.<br>6. Lang G.K. Ophthalmology. A Pocket Textbook Atlas / G.K. Lang.- 2nd ed.,2015. – 607 p.  |
| 9.  | Anesthesiology, intensive care, intensive care | 1. Barash P.G. Clinical Anesthesia / P.G. Barash, B.F. Cullen, R.K. Stoelting, et others. – 2006. – 1760 p.<br>2. Butterworth J.F. Morgan and Mikhail's clinical anesthesiology / J.F. Butterworth, D.C. Mackey, J.D. Wasnick. – 2022. – 456 p.<br>3. Datta S.Obstetric Anesthesia / Sanjay Datta. – 2006. – 409 p.<br>4. Henderson S. Emergency Medicine / S. Henderson. – 2006. – 642 p.<br>5. Miller R.D. Basics of Anesthesia / R.D. Miller, M. Pardo. – 6th edit., 2011. – 1154 p.<br>6. Mills K. Color atlas and text of Emergencies / K. Mills, R. Morton, G. Page. – 2004. - 280 p.<br>7. Orebaugh S.L. Atlas of Airway Management: Techniques and Tools / S.L. Orebaugh, P.E. Bigeleisen – 2007. – 432 p.<br>8. Waldman S.D. Pain Management / S.D. Waldman. - 2nd edit., 2011. – 1248 p. |
| 10. | Dentistry                                      | 1. Banerjee A. Odell's Clinical Problem Solving in Dentistry / A Banerjee, S. Thavaraj. - 2020. – 436 p.   |



|   |                                   |   |
|---|-----------------------------------|---|
|   |                                   | <p>2. Hupp J.R. Contemporary Oral and Maxillofacial Surgery / J.R. Hupp, M.R. Tucker, E. Ellis. – 2013. – 718 p.</p> <p>3. Lindhe L. Clinical Periodont. and Implant Dentistry / Lan Lindhe, T. Berglundh, W.V. Giannobile. Et others. – 2008. – 1360 p.</p> <p>4. Mitchell D.A. An Introductoin to Oral and Maxillof.Surgery / D.A. Mitchell. – 2008. – 371 p.</p> <p>5. Rushworth B. Oxford Handbook of Clinical Dentistry (Oxford Medical Handbooks) / B. Rushworth, A. Kanatas. – 2020. – 816 p.</p> <p>6. Scully C. Clinical dentistry. Churchill’s Pocketbooks / C. Scully. - 4th edition, 2016. – 714 p.</p>   |
| 11.   | Oncology, radiation therapy       | <p>1. Chissov V.I. Oncology / V.I. Chissov. - 2007. – 560 p.</p> <p>2. Gansev Sh.H. Oncology: book / Sh. H. Gansev. - M.: OOO "Medical Information Agency", 2006. - 513 p.</p> <p>3. Kamarli Z.P. Course of lectures on urology oncology / Z.P. Kamarli, E.K. Makimbetov. - KRSU, 2016 – 172 p.</p>   |
| 12.   | Traumatology, orthopedics         | <p>1. Harrison's Principles of Internal Medicine / [J. Larry Jameson, Anthony Fauci, Dennis Kasper, and others]. – 20th edition, 2018. - Vol.1., Vol.2. - 3790 p.</p>   |
| 13.   | General care of surgical patients | <p>1. Kendall G. Medicine and surgery / G. Kendall, K.Y. Shiu, S.L. Johnston. - 2019. – 554 p.</p>  |
| <b>Section 3. Obstetrics and gynecology</b> |                                   |   |
| 1.  | Obstetrics and gynecology         | <p>1. Dolgaya G.V. Course of lectures on gynecology. Textbook. / G.V. Dolgaya. - KRSU, 2022. – 203 p.</p> <p>2. Dutta D.C. Text Book of Obstetrics / D.C. Dutta, H. Konar) – 2004. – 708 p.</p> <p>3. Elmar P. Sacala Obstetrics and gynecology / Elmar P. Sacala - 1997. – 443 p.</p> <p>4. Padubidri V.G. Shaw`s Textbook of Gynecology / V.G. Padubidri, Shirish N. Daftary – 2009. – 596 p.</p> <p>5. Textbook for practical training in obstetrics. / [G.V. Dolgaya, D.A. Umarbaeva, N.V. Potylitsyna, and others]. – KRSU, 2022. – 186 p.</p> <p>6. Umarbaeva D.A. Course of lectures on obstetrics. Textbook. / D.A. Umarbaeva. – KRSU, 2022. - 130 p.</p> |

Table 5 – Practical tasks (tasks) submitted to the SE

| Task № | The content of the task  |
|--------|--|
|        | 1. Practical task – patient supervision  |
| 1      | Collection of complaints, anamnesis of the disease, life, conducting an objective examination of the patient (examination, palpation, percussion, auscultation).   |
| 2      | Interpretation of laboratory and instrumental research methods, appointment of additional examination.   |
| 3      | Making a clinical diagnosis according to the classification.   |
| 4      | Prescribing therapy to the patient.  |
|        | 2. Practical tasks (examples)  |
|        | A 43-year-old patient came to a physician with complaints of epigastric pain radiating to the right, decreases after eating, heartburn, sour belching. Constant pain and swelling of the small joints of the fingers and toes, morning stiffness until 11 pm and restriction of movement. From anamnesis: complaints have been troubling for the last 3 months. Cigarette smoking: for 20 years 1.5 pack per day. Chronic diseases: rheumatoid arthritis for 10 years, often took non-steroidal anti-inflammatory drugs. On examination: defiguration of |

|  |  |
|--|--|
|  | <p>the wrist joints, flexion contractures of the small joints of the hands. On auscultation: hard breathing, dry wheezing on expiration. The boundaries of the heart are normal. BP - 126/70 mm Hg. Pulse rate - 92 per minute, regular rhythm. Soft abdomen, painful in epigastric region. There are no symptoms of peritoneal irritation. Gastroscopy: duodenitis, callous ulcer of the duodenal bulb 3 x 4 cm, antrum gastritis. On the 3rd day of hospitalization, the patient began to develop general weakness, drowsiness, shortness of breath on walking in the ward, changed stool. On a sudden standing up from the bed - darkening in the eyes and a desire to urgently sit down. The doctor noted pallor of the skin and mucous membranes.</p> <ol style="list-style-type: none"> <li>1. What is the preliminary diagnosis of the patient?</li> <li>2. Prescribe additional diagnostic methods.</li> <li>3. What is the management of the patient?</li> <li>4. What specialist consultation does the patient need?</li> </ol>  |
|  | <p>A 45-year-old woman consulted a therapist with complaints of neck deformity, creating cosmetic inconveniences. She noticed a volumetric formation on the anterior surface of the neck about 6 months. Back. She cannot connect its occurrence with anything. Over the past time, the size of education has not changed.</p> <p>The patient is feeling well. The patient has a normosthenic constitution. Rhythmic pulse, 60 / min, BP 120/80 mm Hg. Art. Status locales: a formation with clear edges, about 40x30 mm in size, occupies the anterior and partly the right lateral surface of the neck. Its lower border does not reach the jugular notch of the sternum by 1 cm. On palpation, the formation is soft, displaced by swallowing, not adhered to the skin. The skin above it is not changed. The lymph nodes of the neck are not enlarged.</p> <ol style="list-style-type: none"> <li>1. What is your preliminary diagnosis?</li> <li>2. The choice of tactics for the examination of this patient</li> <li>3. Plan for additional examination of the patient?</li> <li>4. Choice of tactics of surgical treatment. Indications for surgery, options for surgical intervention.</li> </ol> |
|  | <p>A 24-year-old G1P0 woman at 28 weeks' gestation complains of a 2-week duration of generalized pruritus. She denies rashes, exposures to insects, or allergies. Her medications include prenatal vitamins and iron supplementation. On examination, her blood pressure (BP) is 100/60 mm Hg, heart rate (HR) is 80 beats per minute (bpm), and weight is 140 lb. She is anicteric. The skin is without rashes. The fetal heart tones are in the range of 140 bpm. The patient says the itching is intense and she cannot sleep at night.</p> <ol style="list-style-type: none"> <li>1. What is the most likely diagnosis?</li> <li>2. What is the best treatment or this condition?</li> <li>3. What is the best management of the pregnancy?</li> </ol>   |

**An example of an exam ticket:**

**Exam ticket structure (sample):**

MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC  
MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
STATE EDUCATIONAL INSTITUTION OF HIGHER  
PROFESSIONAL EDUCATION  
KYRGYZ-RUSSIAN SLAVIC UNIVERSITY

---

STATE INTERDISCIPLINARY EXAM

for 2024-2025 academic year

specialty \_\_\_\_ *general medicine* \_\_\_\_

Medical Faculty

Department of Therapeutic Disciplines №2, specialty GM

EXAMINATION TICKET NO. \_\_\_\_

1. Question about internal medicine.
2. Question on surgical diseases.
3. Question on obstetrics and gynecology.
4. Interdisciplinary situational task.

Dean of the Medical Faculty \_\_\_\_\_ Karaeva R.R.

Head Department of Therapy No. 2, specialty GM \_\_\_\_\_ Sabirov I.S.

### 7.3 Indicators and criteria for evaluating the results of the state final interdisciplinary exam

When assessing the level of professional preparedness based on the results of the state final interdisciplinary exam (hereinafter referred to as SFIE), the following **criteria** must be taken into account:

- knowledge of educational material (educational disciplines);
- knowledge of the main processes of the studied subject area, the depth and completeness of the disclosure of the issue.
- possession of medical terminology, the skills of analyzing various medical facts and using them when answering;
- knowledge of ethical and deontological aspects;
- the ability to explain the essence of phenomena, events, processes. Draw conclusions and generalizations, give reasoned answers.
- the ability to collect anamnesis from patients;
- ability to conduct a physical examination;
- the ability to interpret the results of research (laboratory, x-ray, instrumental);
- the ability to formulate a clinical diagnosis, conduct a differential diagnosis and indications for the chosen method of treatment;
- application of methods of prevention, medical rehabilitation;
- the ability to organize the transportation of patients;
- Possession of monologue speech, consistency and consistency of the answer, the ability to answer the questions posed, to express one's opinion on the problem under discussion.

A description of the indicators and criteria for evaluating the results of the SFIE, as well as the assessment scale, are given in Table 6

Table 6- Indicators, criteria and levels of evaluation of the results of SFIE

| Grading levels                  | Description of indicators and evaluation criteria   |  |   |
|---------------------------------|---|--|---|
|                                 | Assessment Metrics  | Criteria for assessing the theoretical part of the exam  | Criteria for evaluation practical part of the exam  |
| High level - "excellent" rating | It is given to a graduate who has shown comprehensive and deep knowledge of the program material and additional literature, who has discovered creative abilities in understanding, presenting and practical use of the material. The questions of the task have complete solutions, the content of the answers testifies to the confident knowledge of the graduate and his ability to solve professional problems that correspond to his future qualifications<br>Knowing the general (cultural) and special (professional) language of the answer. | 1. The content of the ticket material is fully disclosed; 2. The material is presented correctly, in a certain logical sequence, with precise terminology; 3. The ability to illustrate theoretical positions with concrete examples, to apply them according to the situation is shown; 4. Demonstrated the assimilation of previously studied related issues, the formation and sustainability of competencies, skills and abilities; 5. The answer sounded independently, without leading questions; 6. One or two inaccuracies were made when covering | The student fully demonstrates practical skills without making mistakes. She exhaustively interprets the results obtained, observes ethical and deontological principles and an individual approach to the patient. |

| Grading levels                                      | Description of indicators and evaluation criteria   |  |   |
|---|---|--|---|
|   | Assessment Metrics  | Criteria for assessing the theoretical part of the exam  | Criteria for evaluation practical part of the exam  |
|   |   | minor issues, which are corrected upon comment.  |   |
| Average level - rating <b>"good"</b>                | It is given to a graduate who has shown full knowledge of the program material, who has mastered the main recommended literature, who has discovered the stable nature of knowledge and skills and is capable of their independent application and updating in the course of practical activities. The content of the answers testifies to the sufficient knowledge of the graduate and his ability to solve professional problems corresponding to his future qualifications.<br>Knowing the general (cultural) and special (professional) language of the answer. | The answer mostly satisfies the requirements for a score of "5", but at the same time has disadvantages:<br>1. There are small gaps in the presentation that did not distort the content of the answer;<br>2. One or two shortcomings were made in the coverage of the main content of the answer, corrected according to the remark of the examiner;<br>3. Mistakes or more than two shortcomings were made when covering minor issues that are easily corrected by the examiner's remark.  | The student performs most of the demonstrated practical skills, but there are minor errors. The student is able to interpret the data obtained with little difficulty, observes ethical and deontological principles and an individual approach to the patient. |
| Low level - rating <b>"satisfactory"</b>            | It is given to a graduate who has shown knowledge of the main program material to the extent necessary for the upcoming practical activities, who is familiar with the main recommended literature, who has made inaccuracies in the answer at the exam, but who has the necessary knowledge and skills to eliminate them when corrected by the examiner. The content of the answers testifies to the lack of knowledge of the graduate and his limited ability to solve professional problems.   | 1. The content of the material is incompletely or inconsistently disclosed, but a general understanding of the issue is shown and sufficient skills for the learned material are demonstrated;<br>2. There were difficulties or mistakes were made in the definition of concepts, the use of terminology, corrected after leading questions;<br>3. With incomplete knowledge of the theoretical material, insufficient formation of competencies, skills and abilities was revealed, the student cannot apply the theory in a new situation. | The student demonstrates partial implementation of practical skills. The task was completed no more than half, a large number of errors were made. The student is not able to interpret the results obtained, observes ethical and deontological principles.    |
| Insufficient level - rating <b>"unsatisfactory"</b> | It is given to a graduate who has discovered significant gaps in the knowledge of the   | 1. The main sod is not disclosed retention of educational material; 2. Ignorance   | The student either does not perform practical   |

| Grading levels | Description of indicators and evaluation criteria   |   |  |
|----------------|---|---|--|
|                | Assessment Metrics  | Criteria for assessing the theoretical part of the exam   | Criteria for evaluation practical part of the exam   |
|                | main program material, who has made fundamental mistakes in the application of theoretical knowledge that do not allow him to start practical activities without additional training in this discipline. The content of the answers testifies to the poor knowledge of the graduate and his inability to solve professional problems. | or misunderstanding of most or the most important part of the educational material is found; 3. Errors were made in the definition of concepts, when using terminology, which were not corrected after leading questions. 4. Competencies, skills and abilities are not formed. | skills at all, or performs it completely incorrectly. Does not follow an individual approach to the patient. |

#### 7.4 Schedule for the preparation, organization and conduct of the SFIE

Table 7– Schedule for the preparation, organization and conduct of the SFE

| Types of work  | Timings  | Responsible executor   |
|--|--|--|
| Formation of the program of the final interdisciplinary exam in the field of study | <i>For 6 months before SFIE</i>                      | Chairman EMPC, Heads EP  |
| Preparing questions for the state exam   | <i>For 6 months before SFIE</i>                      | Head department, Leading teachers                                |
| Issuing questions on the state exam to graduates                                   | <i>For 6 months before SFIE</i>                      | Heads EP   |
| Organization of review lectures and consultations in the field of study            | <i>For 6 months before SFIE</i>                      | Department teachers  |
| Preparation and approval of ticket sets  | <i>For 3 months before SFIE</i>                      | Chairman of the State Examination Commission, Leading Specialist |
| Approval of the state exam schedule and informing students                         | <i>For 1 months before SFIE</i>                      | Leading Specialist   |
| Order on the admission of students to the state exam (one week before the exam)    | <i>For 1 months before SFIE</i>                      | Dean of the Faculty  |
| Conducting a state exam  | <i>According to CTS (calendar-training schedule)</i> | State Examination Commission                                     |

#### 7.5 Recommendations for students on preparation for SFIE

The state final interdisciplinary exam is the final stage of *specialist* training, a mechanism for identifying and evaluating learning outcomes and establishing the compliance of the level of professional training of graduates with the requirements of the Federal State Educational Standard of Higher Education in the specialty “General Medicine”.

Preparation for the exam contributes to the consolidation, deepening and generalization of knowledge gained in the learning process, as well as their application to solving practical

problems. At the state exam, the student demonstrates what he has acquired in the learning process.

During the period of preparation for the SFC, students turn to educational and methodological material. When preparing for the state exam, it is advisable for students to use lecture materials, educational and methodological complexes, basic and additional literature.

Preparation for the state exam includes two stages: independent work during the entire period of study; direct preparation in the days preceding the state exam on the topics of academic disciplines submitted to the State Academic Examination.

Particular attention should be paid to the ability to use the work program of the state final certification in terms of the SE. It includes questions for the state exam. Therefore, the student, having studied the content of the state exam in advance, will be able to better navigate the issues on his ticket.

The wording of the questions of the examination ticket coincides with the wording of the list of questions recommended for the preparation of the state exam.

How to correlate lecture notes and textbooks when preparing for an exam? It would be a mistake to put the main emphasis on lecture notes without referring to textbooks and, on the contrary, to underestimate the notes of lectures. Here are the recommendations. When working on a particular topic of the course, you should first pay attention to lecture notes, and then textbooks or Internet sources. The fact is that "live" lectures have a number of advantages: they more quickly illustrate the state of scientific study of a particular theoretical issue, give an answer taking into account new theoretical developments, i.e. reflect the latest information. Writing and publishing printed matter takes time. Hence, the presentation of some educational material quickly becomes outdated.

To compare the educational information and the completeness of the picture, a lecture notes are required, and it is also mandatory to use at least two educational sources.

Do I need to make written notes when working through a particular issue? There is no single answer. However, in order to be confident in the exam, it is necessary to write down the answers to the most difficult questions from the student's point of view during preparation. The record includes additional (motor) memory resources.

It is extremely important for students to attend consultations held before the state exam. Here it is possible to ask questions to the teacher on those sections and topics that are insufficiently or contradictorily covered in the educational, scientific literature or cause difficulty in perception.

It is important that the student correctly distributes the time allotted for preparing for the state exam. In this regard, it is advisable to draw up a calendar plan for preparing for the exam, which reflects the study or repetition of all examination questions in a certain sequence. The student should prepare for the exam rhythmically and systematically.

Often, students choose the "assault method", when the preparation is carried out chaotically, the material is worked out haphazardly. Such training cannot develop a solid system of knowledge. Therefore, the knowledge acquired with the help of such a method is, at best, fixed at the presentation level.

During the exam, in the time allotted for preparation, the student must formulate a clear answer to each question of the ticket. During preparation, it is recommended not to write down the entire content of the answer on the answer sheet, but to draw up a detailed plan that must be followed during the exam.

When answering exam questions, it is necessary to adhere to a certain answer plan that will not allow the student to get away from the content of the questions posed. When answering the exam, a variety of opinions is allowed. It is welcomed if the student does not read from the sheet, but freely presents the material, focusing on a pre-drawn plan.

The following requirements are imposed on the performance of a graduate at the SFIC:

- the answer must strictly correspond to the volume of questions on the ticket;
- the answer must fully exhaust the content of the ticket questions;
- the answer must comply with a specific plan, which is recommended to be announced at the beginning of the speech;

- a speech at the SFIC must comply with the norms and rules of public speech, be clear, reasonable, logical.

While answering the questions posed, one should be prepared for additional or clarifying questions. Additional questions are asked by members of the state commission within the framework of the ticket and are usually associated with an incomplete answer. Clarifying questions are asked to concretize the student's thoughts. A full answer to clarifying questions only enhances the effect of the student's general answer.

The final assessment of knowledge involves a differentiated approach to the student, taking into account his individual abilities, the degree of assimilation and systematization of the main theoretical provisions, concepts and categories. The culture of speech, competent commenting, giving examples, the ability to connect theory with practice, creatively apply knowledge to extraordinary situations, present material conclusively, argue where necessary are also evaluated.

### **8 Educational, research and scientific production technologies used in preparation for the SFC**

Traditional educational technologies: lectures, practical classes, focused on the communication of knowledge and methods of action, taught to students in finished form and intended for assimilation. Lectures include the use of multimedia equipment. Conducting practical exercises using tables and visual aids. Classes begin with an introductory lecture, in which the goals and objectives of this discipline should be explained; declare requirements for the implementation of the current and final control of knowledge;

Innovative educational technologies are classes that form systemic thinking and the ability to generate ideas when solving various situational problems.

Information educational technologies: independent use of computer equipment and Internet resources by students to perform practical tasks and independent work. as well as to get acquainted with Internet sources, photo and video materials on the relevant section. Preparation of lectures-presentations by the teacher.

### **9 Material and technical support of the SFC**

Table 8– Material and technical support of the SFC

| <b>Name of equipped classrooms</b>  | <b>Address (location) of classrooms</b>  |
|---|--|
| Special rooms:<br>Classroom for conducting lecture-type classes, current control and intermediate certification, etc. for 112 workplaces, equipped with specialized (educational) furniture (tables, chairs, whiteboard classroom, interactive whiteboard); a set of demonstration equipment for presenting information: a multimedia projector, a computer | class 4.4 campus 9<br><br>LAH, SAH, SAH-2 campus 12  |
| Departments of basic medical and preventive institutions of the city of Bishkek.<br>.   | National Center of Cardiology and Therapy, administrative building, st. T. Moldo 3.<br>National Hospital of the Ministry of Health of the Kyrgyz Republic, surgical building (clinic named after |



|   |  |
|---|--|
| <p>computer class (classroom) for group and individual consultations, organization of independent work, including scientific research, <u>equipped with educational furniture for 13 seats each, computers with unlimited access to the Internet, including access to EIS (electronic library system)</u></p> | <p>Akhunbaev), st. T. Moldo 1a.<br/>City clinical maternity hospital №2, st. Mos-cowskaya 252</p> <p>class 1,28, 2,4, 26 campus 12</p> |
|---|--|

**10. Information about the changes made for the current academic year**

| Academic year | Department agreement<br>(record number, record date) | Changes made |
|---------------|--|--------------|
|               |  |              |
|               |  |              |
|               |  |              |