

MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC  
MINISTRY OF HEALTH OF THE KYRGYZ REPUBLIC  
ADAM UNIVERSITY



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**GENERAL EDUCATIONAL PROGRAMME  
OF HIGHER PROFESSIONAL EDUCATION  
Field of study (specialty) 560001 «General Medicine»**

Qualification (degree) of graduate – **Specialist (Doctor; Medical doctor)**

**БИШКЕК 2024**

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## **1. GENERAL PROVISIONS**

### **1.1. The concept of the general educational programme of higher professional education (GEP HPE).**

The General Educational Programme of Higher Professional Education fully complies with the Law "On Education", the State Educational Standard for Higher Professional Education Speciality 560001 "General Medicine", and other regulatory legal acts of the Kyrgyz Republic in the field of education. The HEEP is a system of documents developed and approved by ADAM University, taking into account the needs of the regional labour market of Kyrgyzstan, the requirements of the executive authorities of the Kyrgyz Republic, and relevant industry requirements.

The GEP HPE regulates the objectives, expected results, content, conditions and technologies for the implementation of the educational process, the assessment of the quality of training of specialists in this field of training and includes: a curriculum, academic calendar, work programmes for training courses, subjects, disciplines (modules) and other materials ensuring the quality of student training, as well as training and industrial practice programmes and methodological materials ensuring the implementation of the relevant educational technology.

Compliance with this Higher Education Programme is mandatory for all structural units of the University involved in the implementation of the professional education programme for training specialists in the specialty 560001 "General Medicine".

### **1.2. Terms, definitions, abbreviations and symbols**

This GEP HPE uses terms and definitions in accordance with the Law of the Kyrgyz Republic "On Education", the State Educational Standards of Higher Professional Education of the Kyrgyz Republic for speciality 560001 "General Medicine", and international documents in the field of higher professional education adopted by the Kyrgyz Republic in accordance with established procedure:

- basic educational programme - a set of educational and methodological documentation regulating the objectives, expected results, content and organisation of the educational process in a given field of study (speciality) of higher professional education;
- field of study - a set of educational programmes for training personnel with higher professional education (specialists) in various fields, integrated on the basis of common fundamental training;
- profile - the focus of the basic educational programme on a specific type and/or object of professional activity;
- cycle of disciplines - part of an educational programme or a set of academic disciplines that has a certain logical completeness in relation to the established goals and results of education and training;
- module - part of an academic discipline that has a certain logical completeness in relation to the established goals and results of education and training;
- Competence - a dynamic combination of personal qualities, knowledge, abilities and skills necessary for professional activity in the field of 560001 Medical Treatment;
- Credit (credit unit) - a conditional measure of the labour intensity of the main professional educational programme;

13. Regulations on the structure of teaching and methodological complexes of disciplines at Adam University;
14. Collection of regulatory documents on the application of the credit system at Adam University;
15. Regulations on the conduct of ongoing monitoring and interim assessment of Adam University students;
16. Regulations on time standards for work planning;
17. Regulations on external assessment of student learning outcomes;
18. Adam University curriculum for the specialty 'Medicine' with a standard duration of study of 5 years;
19. Regulations on industrial practice for students of the Adam University School of Medicine.

#### **1.4. General description of the GEP HPE in the specialty «General Medicine»**

Graduates with a degree in 560001 "General Medicine" should be prepared for postgraduate education in clinical disciplines. They are qualified to hold medical positions that do not involve independent patient care, as well as to engage in scientific research and teaching activities in theoretical and fundamental areas of medicine.

##### **1.4.1. Mission, goals and objectives of GEP HPE in the specialty «General Medicine»**

**The mission of the School of Medicine** is to train a new generation of highly qualified, ethically oriented and socially responsible doctors who are able to work effectively in modern healthcare systems, operate in a multinational environment, apply digital technologies and clinical thinking, and strive for continuous professional growth — for the benefit of public health and sustainable development.

**The mission of the GM GEP** is to train professionally competent, socially responsible and clinically minded general practitioners who are able to work in a multicultural environment, effectively apply modern digital technologies and evidence-based medicine, adapt to changes in the healthcare system and ensure the sustainable development of the industry.

**The goal of the GM GEP** is to train a new generation of highly professional and competitive medical specialists with universal and professional competencies and clinical thinking that contribute to their social mobility and sustainability in the labour market; who are ready for postgraduate training, followed by professional medical practice in their chosen field; and maximally focused on the needs of the individual, society and the state.

To achieve these goals, the following tasks have been identified:

- providing high-quality professional education based on a combination of fundamental knowledge and highly qualified teaching staff;
- ensuring the training and professional development of healthcare specialists who are competitive in the international labour market;
- implementing industry-specific scientific and technical projects, providing high-tech, knowledge-intensive medical care, and developing new diagnostic and treatment technologies for the needs of the international healthcare system;
- ensuring the effective implementation of innovations in education and science to meet the needs of individuals, society and the state.

##### **1.4.2. Principles on which the training of graduates is based**

Graduates may engage in professional activities in other areas (or fields) of professional activity, provided that their level of education and acquired competencies meet the requirements for employee qualifications.

## **2.2. Field of professional activity of a graduate:**

- Individuals (patients)
- A set of measures and technologies aimed at creating conditions for health protection, disease prevention and treatment.
- Population

## **2.3. Types and tasks of professional activities of graduates**

- preventive;
- diagnostic;
- therapeutic;
- rehabilitative;
- educational;
- organisational and managerial;
- research.

## **2.4. Professional objectives of graduates**

### ***Preventive activities:***

- implementing measures to motivate the population to maintain and improve their health;
- carrying out preventive and anti-epidemiological measures aimed at preventing the occurrence of diseases;
- carrying out dispensary observation of the adult population, adolescents and children;
- carrying out disease prevention among children, adolescents and the adult population;
- carrying out health education work among the adult population, children, their relatives and medical personnel with the aim of promoting a healthy lifestyle. **PO9** - (ПК-3, ПК-6, ПК-10, ПК-11, ПК-12, ПК-25).

### ***Diagnostic activities:***

- Diagnosis of diseases and pathological conditions in patients based on proficiency in propaedeutic and laboratory-instrumental examination methods;
- Diagnosis of emergency conditions in the population of various age and gender groups;
- Diagnosis of pregnancy.
- Conducting forensic medical examinations. **PO7**- (ПК-5, ПК-14, ПК-15, ПК-16).

### ***Medical activities:***

- treatment of the population using therapeutic and surgical methods based on the principles of evidence-based medicine;
- management of physiological and pathological pregnancies;
- provision of medical care to the population of various age and gender groups in emergency situations;
- conducting medical evacuation measures in emergency situations and providing medical care to the population in extreme conditions of epidemics, in areas of mass casualties;
- organising work with medicines and complying with the rules for their use and storage. **PO8** - (ПК-17, ПК-18, ПК-19, ПК-20, ПК-21).

### ***Rehabilitation activities:***

- developing objective procedures for assessing the level of knowledge and skills of students and the competencies of graduates based on clear, agreed criteria;
- ensuring the quality and competence of the teaching staff;
- providing sufficient resources for all educational programmes implemented and monitoring the effectiveness of their use, including through student surveys;
- regularly conducting self-assessment based on agreed criteria to evaluate its activities (strategy) and compare them with other educational institutions;
- informing the public about the results of its activities, plans, and innovations.

3.1.2. The School of Medicine of the AU creates the conditions necessary for the development of the social and educational component of the educational process, including the development of student self-government, student participation in public organisations, sports and creative clubs, and scientific student societies.

3.1.3. The School of Medicine of the AU involves students in the development of the actual higher education programme, informs students of their rights and obligations in the development of the programme, explains that the subjects chosen by students become compulsory for them, and that their total workload cannot be less than that specified in the curriculum.

3.1.4. The assessment of the quality of training of students and graduates should include their current, interim and final state examinations. The assessment tools are developed and approved by the School of Medicine of the AU.

Requirements for the assessment of students and graduates, as well as the content, scope and structure of final qualification projects, are determined by the university, taking into account the Regulations on the State Final Assessment of University Graduates.

3.1.5. The GEP must include subjects chosen by the student. The procedure for selecting subjects chosen by the student is established in accordance with the internal regulatory documents of the School of Medicine of the AU.

### **3.2. Analysis of employer needs**

The model of a graduate with a degree in 560001 "General Medicine" is developed taking into account the needs of employers. The scope and structure of employer needs are assessed based on an analysis of the 'Employer Questionnaires' completed by the heads of medical and preventive institutions. The forecast of graduate demand in the labour market and their employment prospects in their chosen specialisation (taking into account future specialisation) is based on an analysis of questionnaire data.

## **4. General requirements for students' rights and responsibilities in the implementation of GEP.**

4.1. Students have the right to choose specific subjects within the scope of the study time allocated for the study of subjects of their choice.

4.1.2. When forming their individual educational trajectory, students have the right to receive advice from departments on the choice of subjects.

4.1.3. In order to achieve results in the development of social and personal competencies as part of the educational programme, students participate in the development of student self-government, the work of public organisations, sports and creative clubs, and scientific student societies.

4.1.4. Students are required to complete all assignments provided for in the educational programme within the established deadlines.

**SPCC -3** - able and willing to continuously improve their qualifications, self-awareness, self-development and self-actualisation; manage their time, plan and organise their activities, and develop a strategy for personal and professional development and learning;

**SPCC -4** - is capable and ready to carry out their activities in accordance with the moral and legal norms accepted in society, to comply with laws and regulations governing the handling of confidential information, and to bear social and ethical responsibility for the decisions made;

**SPCC -5** - capable and ready for logical and reasoned analysis, public speaking, conducting discussions and debates, carrying out educational and training activities, and cooperation.

**b) professional (PC):**

- general professional competencies (PC)

**PC -1** - is able and willing to comply with medical ethics rules, laws and regulations on working with confidential information, and to maintain medical confidentiality;

**PC -2** - is capable and willing to analyse the results of their own activities in order to prevent medical errors, while being aware of their disciplinary, civil and criminal liability;

**PC -3** - able and ready to analyse socially significant problems and processes, use economic relations methodologies in the healthcare system;

**PC -4** - is capable and ready to conduct pathophysiological analysis of clinical syndromes, justify pathogenetically justified methods (principles) of diagnosis, treatment, rehabilitation and prevention among the population, taking into account age and gender groups;

**PC -5** - is capable and ready to conduct and interpret interviews, physical examinations, clinical examinations, and the results of modern laboratory and instrumental studies, and to write medical records for adult and pediatric outpatients and inpatients;

**PC -6** - able and ready to apply aseptic and antiseptic methods, use medical instruments, and master patient care techniques;

**PC -7** - able and ready to work with medical equipment used in patient care, apply modern information technology to solve professional tasks;

**PC -8** - able and ready to apply up-to-date information on population health indicators at the healthcare facility level;

- preventive measures:

**PC 10** - is capable and ready to implement preventive measures to prevent infectious, parasitic and non-infectious diseases;

**PC -11** - capable and ready to conduct health education among the population to eliminate modified risk factors for disease development, and to provide recommendations on healthy eating;

**PC -12** - capable and ready to select individuals for observation based on the results of mass tuberculin testing and fluorographic examination, and to evaluate the results for the purpose of early detection of tuberculosis;

**PC -13** - is capable and ready to carry out anti-epidemic measures, protect the population in areas affected by particularly dangerous infections, in the event of a deterioration in the radiation situation, natural disasters and other emergencies;

- diagnostic activity:

**PC -14** - is capable and ready to make a diagnosis based on the results of biochemical and clinical studies, taking into account the course of the pathology in organs, systems and the body as a whole;

**PC -15** - is capable and ready to analyse the patterns of functioning of individual organs and systems, use knowledge of anatomical and physiological characteristics, basic methods of clinical

**The graduate model reflects the expected outcomes of education.**

**The expected outcome** of modern education can be considered to be the development of personal qualities that are necessary for self-development and professional self-realization, and which can also be fully utilized by society. The graduate model is dynamic and based on the principle of continuous quality improvement through feedback and proactive communication.

The following learning outcomes (LO) are provided for graduates majoring in 560001 "General Medicine":

**LO 1** - the ability to solve professional tasks using basic knowledge in the fields of social sciences and humanities, natural sciences, economics, and medical and biological disciplines in one's work (OK-1, OK-2, СЛК-3, ПК-3);

**LO 2** – ability to use business communication techniques in oral and written forms in the official language and in one of the foreign languages to solve professional tasks using modern communication methods, readiness for public speaking (OK-3, СЛК-2, СЛК-5, ИК-1, ИК-2, ИК-3);

**LO 3** - ability to carry out professional activities, taking into account the moral and legal norms of society and the community, as well as the rules of medical ethics (OK-4, ИК-4, СЛД-1, СЛК-2, СЛК-4, ПК-1, ПК-2);

**LO 4** - ability to apply information and bibliographic resources, modern information technologies, and medical and technical equipment in practical activities (ИК – 1, ИК-2, ПК-27, ПК-31);

**LO 5** - ability to apply the basic principles of organization and management in the field of public health protection in medical organizations and their structural units (ИК-4, ПК – 27, ПК – 28, ПК-29);

**LO 6** - ability to apply basic knowledge in fundamental disciplines for timely diagnosis and selection of treatment tactics in medical practice (ПК-4, ПК-14, ПК-15, ПК-18);

**LO 7** - ability to analyze the results of clinical and laboratory-instrumental studies to make a correct diagnosis and determine the scope of therapy (ПК-5, ПК-14, ПК-15, ПК-16);

**LO 8** – ability to choose appropriate treatment tactics for the most common diseases and pathological conditions in adults and children, including emergency conditions (ПК-17, ПК-18, ПК-19, ПК-20, ПК-21);

**LO 09** - ability to apply knowledge and methods of health education to implement preventive measures to prevent the development of infectious and non-infectious diseases and maintain health (ПК-3, ПК-6, ПК-10, ПК-11, ПК-12, ПК-25);

**LO 10** - ability to carry out anti-epidemic measures and organize the protection of the population and territories from the possible consequences of emergencies and natural disasters (ПК-13, ПК-20, ПК-30);

**LO 11** - ability to comply with sanitary and hygienic regulations in healthcare facilities, know the basics of infection control using aseptic and antiseptic methods; master the techniques of caring for adult and pediatric patients (ПК-6, ПК-11, ПК-12, ПК-24);

**LO 12** - ability to conduct rehabilitation activities among the adult population, including pregnant women, adolescents, and children who have suffered from somatic diseases, injuries, or surgical interventions, and knowledge of the main issues of work capacity assessment (ПК-9, ПК-22, ПК-23);

		and promote a healthy lifestyle and sanitary and hygienic education of the population		
		Conducting an analysis of morbidity, disability, and mortality indicators to characterize the health of the assigned population, organizing the activities of the assigned nursing staff. Maintaining medical records, including in electronic form.	06.7	7

### 1. Labor function

Labor actions	Assessment of the patient's condition requiring medical care in urgent and emergency cases
	Recognition of conditions arising from sudden acute illnesses, exacerbations of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care
	Providing emergency medical care to patients with sudden acute illnesses, conditions, and exacerbations of chronic diseases without obvious signs of a threat to the patient's life
	Recognition of conditions that pose a threat to the patient's life, including conditions of clinical death (cessation of vital functions of the human body (circulation and/or respiration), requiring emergency medical care
	Providing emergency medical care to patients in conditions that pose a threat to the patient's life, including clinical death (cessation of vital functions of the human body (circulation and/or respiration)
	The use of drugs and medical devices in the provision of medical care in emergency or urgent forms
Necessary skills	Identify clinical signs of conditions requiring emergency medical care
	Perform measures to provide medical care in an emergency form
	Identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing
	Perform basic cardiopulmonary resuscitation (BCR) in combination with electrical impulse therapy (defibrillation)
Necessary-	List of laboratory and instrumental research methods for assessing the patient's condition, the main medical indications for conducting

	protocols) on the provision of medical care, taking into account the standards of medical care
	Conducting differential diagnostics with other diseases/conditions, including emergency ones
	Establishing a diagnosis taking into account the current international statistical classification of diseases and related health problems
Necessary skills	Collect complaints, anamnesis of life and disease of the patient and analyze the information received
	Conduct a complete physical examination of the patient (inspection, palpation, percussion, auscultation) and interpret its results
	Justify the need and scope of laboratory testing of the patient
	Justify the need and scope of instrumental examination patient
	Justify the need to refer the patient for consultations with specialist doctors
	Analyze the obtained survey results patient, if necessary, justify and plan the volume of additional research
	Interpret the results of collecting information about the patient's disease
	Interpret the data obtained during laboratory examination of the patient
	Interpret the data obtained during instrumental examination of the patient
	Interpret data obtained during patient consultations with specialist doctors
Necessary knowledge	Carry out early diagnosis of internal organ diseases
	Conduct differential diagnostics of internal organ diseases from other diseases
	Determine the order of volume, content and sequence diagnostic measures
	Determine medical indications for the provision of emergency, including emergency specialized medical care
	Use medical devices in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on issues of providing medical care, taking into account the standards of medical care

	Evaluation of the effectiveness and safety of the use of drugs, medical devices, therapeutic nutrition and other treatment methods
	Providing palliative care in collaboration with specialist doctors and other health care workers
	Organization of personalized treatment for patients, including pregnant women, elderly and senile patients, evaluation of the effectiveness and safety of treatment
Necessary skills	To draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care
	Prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on issues of providing medical care, taking into account the standards of medical care
	Prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care
	Assess the effectiveness and safety of drugs, medical devices and therapeutic nutrition
Necessary knowledge	Modern methods of using drugs, medical devices and therapeutic nutrition for diseases and conditions in patients in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care
	The mechanism of action of drugs; medical devices and therapeutic nutrition, medical indications and contraindications for their use; complications caused by their use
	Modern methods of non-drug treatment of diseases and conditions in patients in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care
	The mechanism of action of non-drug treatment; medical indications and contraindications for its use; side effects and complications caused by its use
	Procedure for providing palliative medical care

	<p>Carry out medical rehabilitation measures for the patient in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>
	<p>Identify specialist doctors to conduct rehabilitation measures for a patient in need of medical rehabilitation, taking into account the diagnosis and in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on issues of providing medical care, taking into account the standards of medical care</p>
	<p>Prescribe spa treatment to a patient in need conducting medical rehabilitation, including during the implementation of an individual rehabilitation program or rehabilitation of disabled people, in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>
	<p>Monitor implementation and evaluate effectiveness and safety rehabilitation measures, including during the implementation of an individual rehabilitation program or rehabilitation of disabled people, taking into account the diagnosis in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>
	<p>Carry out medical rehabilitation measures for the patient in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>
Necessary- our knowledge	<p>The procedure for examination of temporary disability and signs of temporary patient's incapacity for work</p>
	<p>The procedure for referring a patient for medical and social examination Signs of persistent dysfunction of the body caused by diseases, consequences of injuries or defects</p>
	<p>Rules for the preparation and issuance of medical documents upon referral Patients for specialized medical care, for spa treatment, for medical and social examination</p>
	<p>Measures for the medical rehabilitation of the patient, medical indications and contraindications for their implementation, taking into account the diagnosis in accordance with the current procedures for the provision of medical care, clinical</p>

	Organize and conduct immunoprophylaxis of infectious diseases in the adult population in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care
	Conduct medical examinations of the adult population for the purpose of early detection of chronic non-communicable diseases and the main risk factors for their development
	Conduct dispensary observation of patients with identified chronic non-communicable diseases, including patients with high and very high cardiovascular risk
	Prescribe preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases
	Determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor
	Conduct sanitary and anti-epidemic events in case of an outbreak of infection
	Develop and implement programs to promote a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, and prevent and combat the non-medical use of narcotic drugs and psychotropic substances
Necessary knowledge	Regulatory legal acts and other documents governing the procedures for conducting medical examinations, medical examinations and dispensary observation
	Principles of dispensary observation of patients with non-communicable diseases and risk factors in accordance with regulatory legal acts and other documents
	List of medical specialists involved in medical examinations and medical check-ups
	Rules for conducting sanitary and anti-epidemic measures
	Forms and methods of health education work to develop elements of a healthy lifestyle, including programs to reduce alcohol and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances
	Principles of application of specific and non-specific prevention of infectious diseases, national calendar of preventive vaccinations and calendar of preventive vaccinations for epidemic indications
	Legislation of the Kyrgyz Republic in the field of health protection, sanitary rules and regulations

	Monitoring the performance of job responsibilities by a district nurse and other medical equipment at disposal workers
	Organization of medical care in medical organizations providing outpatient medical care, including at home when a medical worker is called
	Rules for working in information systems and information-telecommunications network "Internet"

## 6. DOCUMENTS REGULATING THE CONTENT AND ORGANIZATION OF THE EDUCATIONAL PROCESS IN THE IMPLEMENTATION OF THIS GEP HPE

### 6.1. Requirements for the structure of the GEP by specialty.

The structure of the GEP for the specialty 560001 "General Medicine" includes the following blocks:

Block 1 - "Disciplines/modules";

Block 2 - "Practice";

Block 3 - "State final certification";

"Additional types of training: physical education and sports."

GEP structure by specialty		Volume of GEP in the specialty and its blocks in credits
Block 1	I. Humanitarian, social and economic cycle	At least 16
	II. Mathematical and natural science cycle	At least 6
	III. Professional cycle	At least 267
Block 2	Practice	25
Block 3	State final certification	At least 6
Volume of GEP by specialty		Not less than 320

*Note:* Adam University School of Medicine GEP in the specialty 560001 "General Medicine" has the right to change the amount of hours allocated for mastering the educational material for blocks of disciplines within 10%.

Within the framework of the GEP, a specialty is divided into compulsory and elective parts.

The compulsory part of the GEP in the specialty includes disciplines and practices that ensure the development of general scientific, universal, social-personal, general cultural and

Certification, student holidays and is presented in the curriculum for the specialty (Appendix No. 4).

### **6.2.2. Organization and implementation of courses of students' choice (SEC).**

The organization of elective courses provides for the development of additional knowledge in students in individual disciplines and blocks of disciplines. Elective courses are offered by departments taking into account the area of study (specialty) for each section of the curriculum and are recorded in the working curricula in agreement with the academic department. Elective courses in sections of the working curriculum typically complement the content of the required disciplines in these sections. The number of credits allocated to elective courses is in accordance with the State Educational Standard (Appendix No. 5).

### **6.2.3. Organization and implementation of independent work of students**

Independent work of students (hereinafter ISW) is the educational, scientific research and socially significant activity of students aimed at developing general and professional competencies, which is carried out without the direct supervision of a teacher, but with his guidance, consultation and control.

Independent study is an integral part of the educational process. According to the State Educational Standard, it should comprise 50% of the total hours allocated for mastering the core curriculum in the humanities and natural sciences, and 30% in the professional development section.

The types of independent work are determined by the requirements of the State Educational Standard, the content of the academic discipline, the level of students' preparedness, and are approved by the department during the development of the educational and methodological complex (work program), academic discipline (module) of the main educational program.

The methodology for organizing independent work depends on the structure, nature and characteristics of the discipline being studied, the number of hours for its study, the type of assignments for independent work of students and the conditions of educational activities.

The organization of independent work should be aimed at ensuring that all students complete all planned assignments on time and to the required level of quality, which is essential for developing self-discipline and self-control skills. Independent work planning is carried out within the framework of each core educational program. Independent work must be accompanied by methodological support and a justification for the time spent on its completion. The subject plan for independent work, taking into account the hours required for its completion, is outlined in the curriculum, and the types and forms of independent work monitoring are established by departments and reflected in the teaching and methodological materials for each discipline (module).

The course instructor systematically monitors the progress and results of the independent learning process, including during classroom sessions (lectures, seminars, practical exercises, and labs). Independent learning results are assessed during ongoing assessments and factored into students' midterm assessments for the course.

### **6.3. Educational and methodological complexes of disciplines (modules)**

The educational and methodological complex (educational and methodological complex) of a discipline (modules), which includes work programs, is a mandatory component of the main educational program, is compiled for each academic discipline and represents a set of educational

internship programs are developed based on the SES HPE for the respective specialty under the supervision of the Vice-Rector for Academic Affairs, reviewed by the faculty's TMC, and approved by the Academic Council of Adam University.

The purpose of industrial training is to teach students practical skills and prepare them for independent professional work in their chosen specialty. The training is governed by the "Regulations on Industrial Training for Students of Adam University School of Medicine" for students pursuing core professional educational programs at Adam University, approved by the Rector's order dated June 27, 2025.

The management, coordination, and methodological support of internships are provided by the internship supervisor at Adam University School of Medicine, under the supervision of the dean of the faculty. Responsible faculty members are appointed to supervise student internships.

The implementation of this GEP HPE in the specialty "General Medicine" provides for the following types of industrial training: nurse assistant - 4 credits (2nd semester); ambulance paramedic assistant - 4 credits (4.5 semesters), hospital physician assistant - 4 credits (6.7 semesters), family doctor assistant - 4 credits (9.10 semesters).

Internship programs are presented in the Regulations on Industrial Internships of Adam University School of Medicine. A sample agreement between Adam University School of Medicine and a healthcare institution (Appendix No. 6)

#### **6.5. Passports and programs for the development of all mandatory general cultural and professional competencies in the development of GEP**

Passports and programs for the development of all mandatory universal, general professional and professional competencies in students during the development of the GEP HPE in the specialty 560001 General Medicine.

6.5.1. The program of intermediate (stage-by-stage / course-by-course) comprehensive testing (certification) of students for compliance of their training with the stage-by-stage expected educational outcomes of the competency-oriented GEP. The composition, main content and substantive-logical connections of the program of intermediate comprehensive testing of courses, disciplines, modules included in the GEP (Appendix No. 7, Appendix No. 7(2024))

**6.5.2. The program of final comprehensive tests (final state certification) for graduating students (Appendix No. 8)**

#### **6.6. Research program**

Research work is a mandatory component of the General Education Program (GEP) specialist training. It aims to comprehensively develop general cultural and professional competencies in accordance with the SES HPE requirements for the specialty "General Medicine."

Research work includes the training of students through their acquisition, during the learning process, of methods, techniques and skills for carrying out research work, the development of their creative abilities, independence, initiative in their studies and future professional activities within the framework of their specialty.

In developing the School of Medicine's research program, Adam University provides students with the opportunity to:

- participate in scientific research or technical development;
- study specialized and other scientific and technical information on the achievements of domestic and foreign science and technology in the relevant field of knowledge;



- Fostering moral qualities, inner freedom and self-esteem, the need for mercy and the development of the mentality of a socially responsible citizen.
- Creating conditions for updating the principles of a healthy lifestyle.
- Creating conditions for the development of professional interests
- All-round development of students
- Adaptation of international students to local life
- Calling on students to take their studies seriously and attend classes regularly
- Creating a friendly and cohesive atmosphere

Each activity included in the plan helps develop students' general cultural and social competencies.

## **9. REGULATORY AND METHODOLOGICAL SUPPORT FOR THE SYSTEM OF ASSESSING THE QUALITY OF LEARNING THE GEP HPE BY STUDENTS**

### **9.1. Assessment funds for ongoing monitoring of academic performance and midterm assessment**

Adam University ensures the quality of training of specialists, including through:

- development of a strategy to ensure the quality of training of graduates with the involvement of representatives of employers;
- monitoring and periodic review of educational programs;
- development of objective procedures for assessing the level of knowledge and skills of students and the competencies of graduates;
- ensuring the competence of the teaching staff;
- regular self-assessment according to agreed criteria to evaluate its activities (strategy) and comparison with other educational institutions with the involvement of representatives of employers;
- informing the public about the results of their activities and plans.

The assessment of the quality of mastering the GEP for training specialists includes ongoing monitoring of academic performance, midterm assessment of students, and final state assessment of graduates.

Specific forms and procedures for current and intermediate knowledge assessment for each discipline are developed by HEI independently and communicated to students within the first month of the start of training.

To assess students' personal achievements against the stage-by-stage requirements of the relevant GEP (current and interim assessment), assessment tools are created. These tools include standard assignments, quizzes, tests, and assessment methods to assess knowledge, skills, and competency development. The assessment tools are developed and approved by HEI.

Assessment tool pools must be complete and adequate reflections of the SES HPE requirements for a given specialty and correspond to the goals and objectives of the specific specialist training program and curriculum. They are designed to ensure the quality of the general cultural and professional competencies acquired by graduates in accordance with these requirements. Assessment tool pools should be formed based on sample assessment tool pools agreed upon with the Ministry of Education of the Kyrgyz Republic. Assessment tool pools undergo internal and external review and are approved at a TMC meeting.

When developing assessment tools for monitoring the quality of learning modules, disciplines, and practices, all types of connections between the knowledge, skills, and abilities included in them must be taken into account, allowing for the establishment of the quality of

*On the implementation of virtual histology laboratories* With the advent of virtual microscopy, the format of practical histology classes is changing towards the use of virtual slides viewed by individual students on their computers.

*Prediction of immediate and long-term results of coronary artery bypass grafting.*

*Prevention of non-communicable diseases among students and promotion of a healthy lifestyle.*

• Adam University has created conditions for maximizing the alignment of the system for assessing and monitoring specialists' competencies with the conditions of their future professional activities. To this end, in addition to instructors of a specific discipline, employers (representatives of interested healthcare institutions, research institutes, and companies), instructors teaching related disciplines, and others are actively engaged as external experts.

Students should be given the opportunity to evaluate the content, organization and quality of the educational process as a whole, as well as the work of individual teachers.

Current and final assessment of knowledge is carried out using the computer programs Moodle and ZOOM.

The point-rating system for assessing students' academic achievements ensures the transfer of credit for acquired knowledge within the European Union.

## **9.2. State final certification of graduates**

State final certification of a graduate of a higher educational institution is mandatory and is carried out after he or she has mastered the educational program in full.

Final certification tests are designed to determine the graduate's practical and theoretical readiness to perform professional tasks established by the state educational standard and to continue postgraduate and continuing education or graduate school in theoretical areas of medicine.

Students must demonstrate their ability and readiness, drawing on their acquired in-depth knowledge, skills, and developed general cultural and professional competencies, to independently solve professional problems at a modern level, professionally present specialized information, and scientifically argue and defend their point of view. Students with no academic outstanding records and who have fully completed the curriculum are eligible to take the State Final Examination.

The purpose of the State Final Certification is to determine the level of competency development and the qualification awarded – Doctor. The State Final Certification assesses the graduate's readiness to solve professional problems with a greater degree of independence.

The state final certification program is developed in accordance with the state educational standard for the specialty. It includes a list of general medical problems, diseases, and pathological conditions, which are used to formulate certification questions, test assignments, a list of practical skills, and clinical case studies.

The program of the state final examination in the specialty is developed on the basis of the Requirements for the content, scope and structure of the final examination of the State Final Certification in Medical and Pharmaceutical Universities, the current Regulation on the final state certification of graduates of higher educational institutions, approved by the Decree of the Government of the Kyrgyz Republic dated May 29, 2012 No. 346.

The dates for the State Final Certification are determined by the SM AU TMC in accordance with the academic schedule. To conduct the State Final Certification, a State Certification Commission is established in accordance with the procedure established by the