



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education

**"Far Eastern Federal University"**

(FEFU)

School of Biomedicine



APPROVE

Director of the School of Biomedicine

YU.S.Khotimchenko

*Full name*

February 02, 2021

## **PROGRAM**

### **state final certification**

**DIRECTION OF PREPARATION**

**32.04.01 Public health**

**Master's program "Leadership and governance in public health (program in English for foreign citizens)"**

Graduate Qualification - Master

Full-time form of education

Normative period for mastering the program

(full-time education): 2 years

Starting year of preparation: 2022

## APPROVAL SHEET

state final certification programs

in the field of study 32.04.01 Public health

Name of the educational program "Leadership and governance in public health  
(program in English for foreign citizens)"


The program of the state final certification was compiled in accordance with the requirements of the Federal State Educational Standard in the field of study 32.04.01 Public Health, approved by order of the Ministry of Science and Higher Education of the Russian Federation dated 31.05.2017 No. 485.

Reviewed and approved at the meeting of the School of Biomedicine February 02, 2021 (Minutes No. 3).

Considered and approved at the meeting of the FEFU CC on March 04, 2021 (Minutes No. 03-21).

Head of OP \_\_\_\_\_

signature

  
S. Khotimchenko

position, I.O. Surname

Deputy Director  
for educational work

O.L. Kalinina



Department Director

E.V. Khozhaenko



## Explanatory note

The state final certification of a FEFU graduate in the field of study 32.04.01 Public Health The EP is mandatory and is carried out after mastering the main professional educational program in full.

Task types:

- organizational and managerial;
- research.

A graduate who has mastered the master's program, in accordance with the type (s) of professional activity, to which (which) the master's program is oriented, is ready to solve the following professional tasks:

research activities:

- organizing and conducting scientific research on a topical issue;
- compliance with the basic information security requirements for the development of new methods and technologies in the field of healthcare;
- preparation and public presentation of the results of scientific research;

organizational and managerial activities:

- development and implementation of a set of organizational measures aimed at maintaining and strengthening public health;
- implementation of measures to form a motivated attitude of the population to the preservation and promotion of health;
- organization of assessment of the quality of medical care;
- conducting business correspondence, including with international partners;
- preparation and holding of scientific events;
- conducting medical-social and socio-economic research;
- organization and participation in the assessment of the health status of the population, the epidemiological situation;
- participation in the planning and implementation of measures to protect health, improve public health, organization and management in the field of public health;
- participation in risk assessment when introducing new medical and organizational technologies in the activities of medical organizations;
- preparation and execution of scientific, production and project documentation.

Areas and (or) areas of professional activity of the graduate:

- 01 Education and science (in the field of scientific research);

– 02 Health care (in the field of organizing the health care system in order to ensure public health).

The objects of professional activity of graduates who have mastered the master's program are:

- population,
- management of medical, social, environmental factors affecting health and quality of life,
- processes of interaction between organizations operating in the field of healthcare and drug supply;
- social, medical and pharmaceutical technologies;
- examination of the quality of medical and pharmaceutical activities.

Requirements for the results of mastering the educational program:

The learning outcomes of the educational program should be correlated with the indicators of achievement of competencies established in the OBEP.

The totality of the planned learning outcomes should ensure the formation of all the competencies established by the BEL for the graduate.

Universal competencies of graduates and indicators of their achievement:

<b>Name of the category (group) of universal competencies</b>	<b>Code and name of the graduate's universal competence</b>	<b>Code and name of the indicator of achievement of universal competence</b>	<b>Learning outcomes by disciplines (modules), practices</b>
Systems and critical thinking	UK-1 Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	UK-1.1 Knows the basics of planning and organizing measures to ensure the protection of public health based on a systematic approach, followed by the development of an action strategy to overcome problem situations UK-1.2 Knows how to properly justify the implementation of measures to ensure the protection of public health, draw up official medical documents, resolve problem situations based on a systematic approach, develop an action strategy 1.3 Has the ability to	

		formulate the tasks of planning and organizing measures to ensure the protection of public health by conducting a critical analysis of problem situations in a medical organization based on a systematic approach, followed by the development of an action strategy	
Development and implementation of projects	UK-2 Able to manage a project at all stages of its life cycle	UK-2.1 Carries out scientific research using modern ideas UK-2.2 Able to independently lead the team of authors in scientific professional activities UK-2.3 Knows the main points of the leader's work, team work, issues of modern law in medical practice	
Teamwork and Leadership	UK-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal	UK-3.1 Knows the main provisions and norms of the leading branches of law to protect the professional activities of medical workers UK-3.2 Able to solve practical problems in the formation of a culture of professional communication between a doctor and patients, colleagues and the management of a medical organization UK-3.3 Has the skills to prepare proposals on certain issues of improving moral standards in the	

		activities of medical organizations	
Communication	UK-4 Able to use modern communication technologies, including in a foreign language(s), for academic and professional interaction	<p>UK-4.1 Ability to use/apply learned technical terms and grammatical structures to work with original texts of an academic and professional nature</p> <p>UK-4.2 The ability to lexically correctly, competently, logically and consistently generate oral and written statements in situations of academic and professional interaction</p> <p>UK-4.3 The ability to form and defend one's own judgments and scientific positions in a foreign language in situations of academic and professional interaction</p> <p>UK-4.4 Participates personally in the organization of free scientific and professional communication and in a foreign language environment</p> <p>UK-4.5 Uses knowledge of a foreign language for scientific and professional communication for academic and professional interaction</p> <p>UK-4.6 Owns methods of organizing public events to get acquainted with information on health problems in foreign literature with colleagues in a foreign language environment</p>	
Intercultural interaction	UK-5 Able to analyze and take into account	UK-5.1 Knows the principles of organizing	

	the diversity of cultures in the process of intercultural interaction	public events to solve the problems of professional activity in the process of intercultural interaction UK-5.2 Able to personally participate in public events with the ability to solve problems on IT technologies in the process of intercultural interaction UK-5.3 Owns methods of organizing public events to solve the problems of professional activity, including in the process of intercultural interaction	
Self-organization and self-development (including health protection)	UK-6 Is able to determine and implement the priorities of their own activities and ways to improve it based on self-assessment	UK-6.1 Knows the basics of scientific research with an explanation of the technology of their own activities UK-6.2 Knows how to justify the priorities of their own activities UK-6.3 Owns ways to formulate goals, objectives of their own activities and ways to improve it based on self-assessment	

General professional competencies of graduates and indicators of their achievement:

<b>Name of the category (group) of general professional competencies</b>	<b>Code and name of general professional competence</b>	<b>Code and name of the indicator of achievement of general professional competence</b>	<b>Learning outcomes by disciplines (modules), practices</b>
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Scientific and organizational activities	GPC-1 Ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	GPC-1.1 Knows the basics of applying scientific, research and production, design, organizational, managerial and regulatory documentation GPC-1.2 Knows how to use scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system GPC-1.3 Knows how to organize work on the use of scientific and production, design, organizational, managerial and regulatory documentation in the healthcare system	Know .. Be able to ...
Information Security	GPC-2 The ability to use information technology in professional activities, to comply with the basic requirements of information security	GPC-2.1 Knows and is able to explain the use of information technology GPC-2.2 Knows how to justify the criteria for evaluating IT technologies in practice GPC-2.3 Has the ability to formulate and explain the need for the use of information technology in the work of medical organizations in compliance with the basic requirements of information security	
Management	GPC-3 Ability to implement management principles in professional activities	GPC-3.1 Knows the basic concepts of research processes in medicine for the implementation of management	



		<p>principles in professional activities</p> <p>GPC-3.2 Knows how to substantiate the criteria for assessing the implementation of management</p> <p>principles in professional activities</p> <p>GPC-3.3 Owns the methods of collecting, processing, analyzing information and presenting them to assess the quality of medical care in the implementation of management</p> <p>principles in professional activities</p>	
Biostatistics	<p>GPC-4 The ability to apply modern methods of collecting and processing information, to conduct statistical analysis and interpret results, to study, analyze, evaluate trends, to predict the development of events in the state of population health</p>	<p>GPC-4.1 Knows the basics of computer technology in the collection, storage, analysis and transmission of information on predicting the development of events in the state of population health</p> <p>GPC-4.2 Able to apply computer technologies in the collection, storage, analysis and transmission of information on predicting the development of events in the state of population health</p> <p>GPC-4.3 Has the skills to prepare organizational and management documentation in a medical organization for predicting the development of events in the state of</p>	

		population health of the population; possesses methods of multivariate statistics and methods of biological information processing for solving professional problems	
Organization of public events	GPC-5 Ability to organize public events to solve the problems of professional activity, including with international partners	GPC-5.1 Knows the principles of organizing public events with the ability to solve problems in IT technologies with international partners GPC-5.2 Able to take personal part in public events with the ability to solve problems in IT technologies with international partners GPC-5.3 Owns methods of organizing public events to solve the problems of professional activity, including with international partners	
First aid	GPC-6 Ability to organize patient care and provide first pre-hospital medical care in emergency conditions in emergency situations, epidemics, in centers of mass destruction	GPC-6.1 Knows the methods of organizing patient care and providing first pre-hospital medical care in emergency conditions in the centers of mass destruction GPC-6.2 Able to organize patient care and provision of first pre-medical health care in emergency conditions in emergency situations, epidemics, in centers of mass destruction GPC-6.3 Owns the methods of planning and organizing activities for organizing patient care and providing	

		first pre-medical health care in emergency conditions in emergency situations, epidemics, in centers of mass destruction	
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**Professional competencies of graduates and indicators of their achievement:**

<b>Code and name of professional competence</b>	<b>PS code (if PS is available) or reference to other grounds</b>	<b>Labor function code (if there is a PS)</b>	<b>Competence achievement indicators</b>
<b>Type of tasks of professional activity: research</b>			
PC-1 Ability to calculate, evaluate and analyze indicators characterizing the activities of a medical organization, and indicators characterizing the state of public health			PC-1.1 Knows the principles of collecting and processing information PC-1.2 Can create a data matrix, code the material PC-1.3 Owns statistical methods of data processing, including using information and analytical systems and the information and telecommunication network "Internet"
<b>Type of tasks of professional activity: organizational and managerial</b>			
PC-2 Ability to prepare presentation materials, information and analytical materials, information about the activities of a medical organization or its divisions, conducting organizational and methodological activities in a medical organization			PC-2.1 Knows how to organize, manage, plan medical activities PC-2.2 Able to carry out organizational and methodological work in the divisions of a medical organization PC-2.3 Possesses management skills to conduct organizational and methodological activities in a medical organization
PC-3 The ability to organize, plan and control the activities of a structural unit of a medical organization			PC-3.1 Knows the standards of medical care PC-3.2 Knows how to assess the resources of a medical organization and implement a quality management system PC-3.3 Possesses the necessary skills for compiling reporting documentation, evaluating the activities of a healthcare institution
PC-4 The ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement a quality			PC-4.1 Knows the methodology for a comprehensive assessment of the performance of a medical organization PC-4.2 Able to develop and select the best areas for the

management system in a medical organization, prepare a rationale for the volume of medical care in accordance with the resources of a medical organization and the needs of the population			activities of a medical organization PC-4.3 Possesses the skills of a systematic approach when developing development plans
PC-5 The ability to evaluate the effectiveness of the activities of a medical organization, develop and select optimal management decisions, develop a business plan for the development of a medical organization, use a process approach in managing a medical organization, use technological maps of the processes of a medical organization			PC-5.1 Knows the methods of planning a medical organization PC-5.2 Able to draw up a plan for a medical organization, develop business planning and investment projects PC-5.3 Proficient in planning, developing business planning and investment projects
PC-6 The ability to develop plans and programs, form a system of indicators for the activities of a medical organization, evaluate the effectiveness of a medical organization, develop options for management decisions and assess the risks associated with their implementation			PC-6.1 Knows the features of the formation of a system of indicators of a medical organization PC-6.2 Is able to evaluate the effectiveness of the medical organization, taking into account the formed system of indicators PC-6.3 Has the skills to form performance indicators, evaluate their effectiveness, as well as the ability to develop management decisions with an assessment of the risks associated with their implementation

### **The structure of the state final certification**

Block 3. State final certification includes:

- preparation for passing and passing the state exam (if the Organization has included the state exam in the state final certification);
- performance and defense of the final qualifying work.

#### **3.1 The purpose of the state final certification**

The purpose of the state final certification is to establish the compliance of the level and quality of vocational training of a graduate in the direction 32.04.01 Public Health with the requirements of the Federal State Educational Standard of Higher Education and employers. The state final certification is designed to help

systematize and consolidate the knowledge and skills of the graduate in this area in solving specific professional problems, to determine the level of preparation of the graduate for independent work.

### **Tasks of the state final certification**

The objectives of the state final certification are:

- determining the readiness of a graduate to perform professional tasks;
- assessment of the ability to independently solve the problems of one's professional activity, present special information, argue and defend one's point of view;
- establishing the degree of formation of the graduate's competencies.

To conduct the state final certification, the head of the organization forms a state examination commission.

The State Examination Commission is headed by the chairman (in the absence of the chairman, his deputy). The chairman (deputy) of the state examination commission is approved by a person who does not work in this organization, from among doctors of science, professors of the relevant profile, heads of health authorities and medical organizations.

The State Examination Commission is formed from: the teaching staff and researchers of the organization, as well as persons invited from the health authorities, leading teachers and researchers of medical organizations.

The chairman and composition of the state examination commission are approved by the administrative act of the organization.

The State Examination Commission operates for one calendar year.

The State Examination Commission is guided in its activities by this Procedure, the relevant federal state educational standards for the specialist's program insofar as it relates to the requirements for the state final certification.

Before the state exam in the specialty, consultations are held.

The form of the state exam is oral, the defense of the WRC.

### **Requirements for the procedure for conducting the state exam**

The duration of the preparation for the answer is recommended within 60 minutes, the duration of the answer to the oral exam ticket is within 20 minutes.

It is recommended that no more than 5 examinees be in the audience at the same time during the state exam; it is not recommended to leave the audience during the exam.

To prepare the answer, the graduate uses examination sheets that are saved after taking the exam in a personal file.

Discussion and announcement of the results of the state exam by the state examination committee is recommended to be carried out individually for each examiner with a description of the answers. Decisions of the State Examination Commission are made by a simple majority vote of the members of the commission participating in the meeting, with the obligatory presence of the chairman of the commission or his deputy. In case of an equal number of votes, the chairman of the commission (or the deputy chairman of the commission replacing him) has the right of a casting vote.

For each student, a protocol for taking the state exam in the specialty is filled out, in which questions of tickets and additional questions of members of the state examination commission are entered. The minutes of taking the state exam in the specialty are signed by those members of the state examination commission who were present at the exam.

The level of knowledge is assessed as "excellent", "good", "satisfactory", "unsatisfactory".

After the meeting of the SEC and the preparation of protocols, the results of the state exam are announced to students. After the state exam, all documents are transferred to the archive of the university. Students who have not passed the state final certification due to failure to appear at the state certification test for a good reason (temporary disability, performance of public or state duties, subpoena) have the right to pass it within 6 months after the completion of the state final certification. The student must submit to FEFU a document confirming the reason for his absence. Students who did not pass the state certification test due to failure to appear at the state certification test for an unexcused reason or in connection with receiving an "unsatisfactory" grade,

A person who has not passed the state final certification may re-pass the state final certification no earlier than 10 months and no later than five years after the deadline for the state final certification, which was not passed by the student. The specified person can re-pass the state final certification no more than two times. In order to re-pass the state final certification, the specified person, upon his application, is reinstated in FEFU for the period of time established by the organization, but not less than the period of time provided for by the calendar study schedule for the state final certification in the field of study 32.04.01 Public health (master's degree).

For students from among the disabled, the state final certification is carried out by the organization, taking into account the peculiarities of their psychophysical development, their individual capabilities and health status. The specifics of conducting state certification tests for persons with disabilities are enshrined in the Regulations on the state final certification of graduates of the

federal state autonomous educational institution of higher professional education "Far Eastern Federal University" (approved by order No. 12-13-2285 dated November 27, 2015 (with last change)).

When conducting the state final certification, the following general requirements are met:

- carrying out the state final certification for the disabled in the same classroom together with students who are not disabled, if this does not create difficulties for the disabled and other students when passing the state final certification;

- the presence in the audience of an assistant (assistants) who provides students with disabilities with the necessary technical assistance, taking into account their individual characteristics (take a workplace, move around, read and complete a task, communicate with the chairman and members of the state examination committee);

- the use of the technical means necessary for students with disabilities when passing the state final certification, taking into account their individual characteristics;

- ensuring the possibility of unhindered access for students with disabilities to classrooms, toilets and other premises, as well as their stay in these premises (the presence of ramps, handrails, extended doorways, elevators, in the absence of elevators, the audience should be located on the first floor, the presence of special chairs and other devices) .

All local regulations of the organization on the issues of conducting the state final certification are brought to the attention of students with disabilities in an accessible form for them.

At the written request of a student with a disability, the duration of passing a state certification test by a student with a disability may be increased in relation to the established duration of its delivery.

### **Forms of the state final certification**

The final state certification of a master's degree graduate is mandatory and is carried out after mastering the educational program in full. IGA includes the preparation and defense of the master's final qualifying work. The final qualifying work is carried out in the form of a master's thesis during the internship period and is an independent and logically completed final qualification work.

The final qualifying work performed by the student demonstrates the level of readiness for independent professional activity.

The structure of the state final certification includes the defense of the final qualification work (WQR).

The requirements for the WRC in this area of training are contained in the Federal State Standard, as well as in the local regulatory act of the Far Eastern Federal University - Regulations on the state final certification (order dated November 27, 2015 No. 12-13-2285).

**The procedure for filing and considering appeals based on the results of state certification tests**

1) According to the results of state certification tests, the student has the right to appeal.

2) The student has the right to file a written appeal with the Appeal Commission about the violation, in his opinion, of the established procedure for conducting the state certification test and (or) his disagreement with the results of the state certification test (the form of the appeal is given in Appendix 5).

3) The appeal is submitted by the student personally to the appeal commission no later than the next working day after the announcement of the results of the state certification test. Information about the place of work of the appeal commission is brought to the attention of students on the day of the defense of the WRC.

4) To consider the appeal, the secretary of the state examination commission sends to the appeal commission the minutes of the meeting of the state examination commission, the conclusion of the chairman of the state examination commission on the observance of procedural issues during the state certification test, as well as the final qualification work, review and review (reviews).

5) The appeal is considered no later than 2 working days from the date of filing the appeal at a meeting of the appeal commission, to which the chairman of the state examination commission and the student who filed the appeal are invited.

6) The decision of the appeal commission is drawn up in a protocol and brought to the attention of the student who filed the appeal within 3 working days from the date of the meeting of the appeal commission. The fact of familiarization of the student who filed the appeal with the decision of the appeal commission is certified by the signature of the student.

7) When considering an appeal on violation of the procedure for conducting a state attestation test, the appeal commission takes one of the following decisions:

– on the rejection of the appeal, if the information contained in it about violations of the procedure for conducting the state final certification of the student was not confirmed and (or) did not affect the result of the state certification test;



– on the satisfaction of the appeal, if the information contained in it about the violations of the procedure for conducting the state final certification of the student was confirmed and affected the result of the state certification test.

8) If a decision is made to satisfy the appeal on violation of the procedure for conducting the state attestation test, the result of the state attestation test is subject to cancellation, in connection with which the protocol on the consideration of the appeal is transferred to the state examination commission no later than the next working day for the implementation of the decision of the appeal commission. The student is given the opportunity to pass the state attestation test within the time limits set by the university.

9) When considering an appeal of disagreement with the results of the state attestation test, the appeal commission makes one of the following decisions:

– on the rejection of the appeal and the preservation of the result of the state attestation test;

– on the satisfaction of the appeal and the presentation of a different result of the state attestation test.

10) The decision of the appeal commission is submitted to the state examination commission no later than the next working day. The decision of the appeal commission is the basis for the cancellation of the previously issued result of the state attestation test and the issuance of a new one.

11) The decision of the appeal commission is final and not subject to revision.

12) The re-conduct of the state attestation test is carried out in the presence of one of the members of the appeal commission no later than July 15.

13) An appeal to re-conduct a state certification test is not accepted.

### **Requirements for final qualification works and the procedure for their implementation**

Final qualifying work (hereinafter - WQR) is an obligatory type of final attestation tests. The general requirements for the WQR are defined by the Federal Educational Standard, the Regulations on the State Final Attestation for Educational Programs of Higher Education - Bachelor's, Specialist's, Master's Programs of the Federal State Autonomous Educational Institution of Higher Education "Far Eastern Federal University" dated November 27, 2015 No. 12-13-2285.

WRC is carried out in the form of a scientific work, which is an independent research work related to the solution of an actual research problem in accordance with the activities provided for by direction 32.04.01 "Public Health".

General requirements for WRC:

- Target orientation.
- Logical presentation of the material.
- Depth of research and completeness of coverage of issues.
- The persuasiveness of the argument.
- Brevity and accuracy of wording.
- Concreteness of the presentation of the results of the work.
- Evidence of conclusions and validity of recommendations.
- Competent presentation of research results.

The purpose of the WRC is to expand, systematize and consolidate the theoretical knowledge and practical skills of students in solving complex problems with research elements, as well as determining the level of preparation of graduates for the performance of functional duties.

During the WQR, the student must show:

- Knowledge on the chosen topic and the ability to present theoretical material in a problematic way
- The ability to analyze and summarize literary sources, solve practical problems, formulate conclusions and assumptions.

The wording of the WRC topic must meet one of the following requirements:

- The themes of final qualifying works should be aimed at solving professional problems.
- The topics of the WRC should comply with the requirements of the Federal State Educational Standard of Higher Professional Education, be relevant, correspond to the current state and prospects for the development of science, technology and culture. The list of topics is updated annually.
- WQR topics are offered by the faculty, agreed with the head of the department and the head of the EP and approved at a meeting of the department, after which they are offered to students.
- The student may be given the right to choose the topic of the final qualifying work on the basis of the approved topic. A student or an enterprise-consumer can propose an initiative topic for the WRC with a justification for the expediency of its development. After examination by the head of the WRC and agreement with the head of the EP, this topic is subject to approval at a meeting of the department.

When performing the WRC, the student must use special and scientific literature, methodological manuals and instructions, standards, technological instructions, catalogs on technological equipment and other materials.

The volume of the WRC should be 70-120 printed pages.

### **Requirements for the structure and content of the final qualification work of the master, performed in the form of a master's thesis**

Master's work should include the following sections:

*without fail:*

- Title page.
- Exercise.
- Introduction.

It reveals the relevance of the work, contains information about the subject and object of research, a clearly formulated goal and objectives of the work, as well as protected provisions.

- Literature review

It is problematic presented theoretical material. Contains systematized literary information on the topics of the WRC. Reflects the results of a literary search for at least 10 years from the date of the work. Includes the results of the analysis of educational, periodical, scientific, technical, regulatory literature, as well as patent data.

- Materials and methods of research

Contains general information about the organization of the practical part of the experiment, including the general scheme of research; characteristics of the objects of work; information about organizations participating in the work (if any); enumeration of instruments, reagents and solutions used in the experimental part of the work; a detailed description of the methods and methods of research used in the work.

- Results and discussion

The main part of the final qualifying work. It consists in the presentation of experimental data obtained in the course of the work with a description of the results obtained, a discussion of the identified patterns, an evidence-based presentation of one's own conclusions, assumptions, theories, etc. The results are preferably presented in tabular and graphical form with preliminary statistical data processing.

- Conclusions / conclusion and recommendations

They are abstracts reflecting the main results of the work, consistent with the tasks set and the defended provisions set out in the "Introduction" section.

- List of sources used

Contains a bibliographic description of all documents used in the preparation of the dissertation, made in accordance with the requirements for the design of written work performed by students and students of FEFU

*proactively:*

- Scientific and technical documentation projects (including TU, TI, etc.)
- Patent search results in the form of a patent certificate
- description of equipment and instruments used in experiments, measurements and tests;
- Materials confirming the quality of the study performed (certificate of implementation (Appendix 4), act of implementation, test reports, patent application, publications, etc.)

Applications of a recommendatory nature, including graphs, diagrams, auxiliary numerical data tables, illustrations and photographs of an auxiliary nature, etc.

### **WRC preparation procedure**

The preparation of the WRC is carried out during the entire period of study in the magistracy within the framework of research work, as well as research, industrial and pedagogical practices provided for by the Federal State Educational Standard of Higher Professional Education in this area of master's training. When determining the work assignment for a master student for each type of practice, the topic of his WRC should be taken into account.

The research work of a master student is organized both in individual (consultations of a supervisor, practitioners) and in a collective form (seminars, workshops, conferences, research laboratories, scientific circles, summer / winter schools, student work competitions, web forums, exhibitions, practices, project activities, including grants and contracts).

One of the main forms of research, including the work of a master's student on the WRC, is his mandatory participation in a regular research seminar. The seminar provides for approbation of the results of work on research, technical, media, business, etc. a project carried out by a master student as a WRC. Participation in the work of the research seminar is the basis for compiling and adjusting the Individual plan of the undergraduate, which fixes the stages of the WRC, forms and types of research work in each semester.

The following specific types of SRW can be envisaged at various stages of preparation of the VCRM, the results of which are the reporting materials for each stage: preparation of an analytical review, digest, abstract, essay, report / theses,

prospectus, review, text of an abstract, publication, grant application, development of recommendations, expert opinion, creation of a model, organization of an exhibition or conference, participation in the development of a website, etc.

The direct supervision of the VKRM is carried out by a supervisor who has a Russian or foreign academic degree and/or academic title. The supervisor of the undergraduate participates in the formation of his individual educational trajectory, taking into account the theme of the WRC, the preparation of which should be facilitated by research work in the semester, special seminars, elective courses, practices. The supervisor participates in the preparation of the research map and the schedule for the preparation of the WRC, controls their implementation, provides periodic advice to the undergraduate, assists him in research work (participation in conferences, preparing materials for publication, etc.), gives recommendations and conclusions about the possibility of presenting work for defense (review of the supervisor).

In agreement with the head of the master's program, a scientific consultant may be appointed to the master's student.

Prepared by the WRC in the form of a bound final qualifying work with a set of drawings (if any), as well as accompanying documentation, must be submitted to the attestation commission within the time frame stipulated by the work schedule.

The defense of the final qualifying work is carried out at an open meeting of the SEC according to a predetermined schedule. The graduate prepares a report for defense with a media presentation of materials, taking into account the following structural construction:

- the relevance of the topic of work;
- purpose and objectives of the study;
- methods of studying the problem under consideration;
- brief description of the object of study;
- the results of the student's analysis of the phenomenon under study, indicating the personal contribution of the graduate;
- suggestions for improving the analyzed phenomenon.

The duration of the report is no more than 15 minutes. At the same time, most of the presentation time should be spent on the results of the analysis and defended recommendations.

After the presentation of the report, the members of the SEC ask questions to the defender. At the same time, the graduate has the right to use all the materials that he prepared for his defense. The total duration of the WRC defense is no more than 30 minutes.

Then the floor is passed to the head, and in case of his absence, the secretary reads out the review. In the speech, the supervisor briefly outlines the content of his review.

After the completion of the defense of the final qualifying works scheduled for this day, the State Attestation Commission proceeds at its closed meeting to discuss the results of the defense of the WRC by each graduate. The results of the defense are evaluated by a simple majority vote of the commission members participating in the meeting. This takes into account the level of the report and presentation on the results of the WRC, answers to questions from members of the SEC. In case of an equal number of votes, the opinion of the chairman is decisive.

Approximate criteria for evaluating the results of the defense of the final qualification work:

The grade "excellent" is given to the student if:

- The problem posed in the WRC is studied in depth, an analytical review of domestic and foreign studies on the topic under study is presented;
- the set experiment is consistent with the goals and objectives of the work, has a logical conclusion, the results are reliable, statistical processing of the data obtained has been carried out;
- the work used at least 40 literary sources (periodicals, monographs, manuals, normative documentation, etc.), of which at least 50% were published over the past 10 years;
- when preparing, designing and presenting the work, graphic, demonstration or calculation programs were used;
- the design of the work corresponds to the RD, the demonstration material is well readable, understandable, compatible with the oral presentation, and contributes to the understanding of the presented work;
- has a concrete practical result that has been tested and positive external reviews;
- the work is presented clearly, accessible, concisely, the oral report is accompanied by relevant demonstration material; the student at a high level is oriented in the topic under study, answers the questions asked in detail and to the point; the answers are analytical.

A "good" grade is given to a student if:

- the topic of the WRC is disclosed, the main directions of the problem under study are systematized; the set experiment is consistent with the goals and objectives of the work, has minor flaws, the results are reliable, statistical processing of the data obtained has been carried out;

- the work used at least 40 literary sources (periodicals, monographs, manuals, normative documentation, etc.), of which at least 40% were published over the past 10 years;

- when preparing, designing and presenting the work, graphic, demonstration or calculation programs were used;

- the design of the work corresponds to the RD, the demonstration material is combined with the oral report and contributes to the understanding of the work presented;

- has a specific practical result that has been tested and positive feedback;

- the work is presented clearly, accessible, the oral report is accompanied by relevant demonstration material; the diploma student owns the material at a high level, essentially answers the questions asked.

The mark "satisfactory" is given to the student if:

- the topic is disclosed, but the presentation of the material is descriptive with links to sources;

- the set experiment is consistent with the goals and objectives of the work, has flaws, some areas of the experiment do not have a logical conclusion; the results are reliable, partial statistical processing of the obtained data was carried out;

- the work used at least 25 literary sources (periodicals, monographs, manuals, normative documentation, etc.), of which at least 30% were published over the past 10 years;

- when preparing, designing and presenting the work, special software tools were not used;

- the design of the work and demonstration material complies with the ND;

- has a practical result, but has not passed approbation;

- the work is not presented clearly enough, the oral report is not accompanied by demonstration material in full; the diploma student does not know the material well enough, he does not answer the questions accurately enough.

An "unsatisfactory" grade is given to a student if:

- the topic is not disclosed, the material presented does not correspond to the purpose and objectives of the work;

- the practical part is not completed, the results are unreliable;

- used less than 20 literary sources, most of which are more than 10 years old;

- when preparing, designing and presenting the work, special software tools were not used;

- the design of the work does not comply with the ND, the demonstration material is missing or does not correspond to the report being submitted;
- the work is not presented in full, the oral report is not accompanied; the diploma student does not own the material at a high level, answers the questions asked in detail and to the point.

Students who receive an unsatisfactory mark in the defense of their final qualification work, on the basis of the protocol of the attestation commission and a negative decision of the appeal commission (in the event of an appeal), are subject to expulsion from FEFU, as they did not defend their final qualification work.

## **Recommended literature for preparing for the state final certification**

### **Main literature**

*(electronic and printed publications)*

1. Aleksunin V.A. Marketing / Aleksunin V.A., - 6th ed. - M.: Dashkov i K, 2017. - 216 p.: Access mode:<http://znanium.com/catalog/product/511979>
2. Antipenko, E.S. Aspects of concepts and patterns of formation and development of the healthcare system (reflections) / E.S. Antipenko, A.E. Antipenko; Moscow state medical dentist. un-t im. A.I. Evdokimov Ministry of Health of the Russian Federation. – Ed. 3rd, rev. and additional - Moscow: Sputnik, 2015. - 167 p.
3. Balashov A.P. Management: Textbook / Balashov A.P. - M.: Vuzovsky textbook, SIC INFRA-M, 2015. - 271 pp.: 60x90 1/16 (Binding 7BTs) ISBN 978-5-9558-0365-4: Access mode:<http://znanium.com/catalog/product/452755>
- four. Basovsky L.E. Marketing: Textbook / L.E. Basovsky, E.N. Basovskaya. - 2nd ed., revised. and additional - M.: NITs INFRA-M, 2014. - 300 p.: 60x90 1/16 + (Additional mat. znanium.com). - (Higher education: Bachelor's degree). (hardback) ISBN 978-5-16-009580-6
5. Vikhansky O.S. Management: textbook / O.S. Vikhansky, A.I. Naumov. - 6th ed., revised. and additional - M.: Master: NITs INFRA-M, 2016. - 656 p. Access mode:<http://znanium.com/catalog/product/615348>
6. Zenina L.A. Economics and management in health care: a textbook for institutions of secondary vocational education /L. A. Zenina, I. V. Sheshunov, O. B. Chertukhina. - 4th ed., Ster. - Moscow: Academy, 2014.-208 p. Subscription School of Biomedicine
7. Knyshova E.N. Management: Textbook / Knyshova E. N. - M .: ID FORUM, SIC INFRA-M, 2015. - 304 p.: 60x90 1/16. - (Professional Education) (Binder 7BC) ISBN 978-5-8199-0106-9 Access mode:<http://znanium.com/catalog/product/492807>



8. Maslova, E. L. Management: Textbook for bachelors / E. L. Maslova. - M.: Publishing and Trade Corporation "Dashkov and Co", 2015. - 336 p. - ISBN 978-5-394-02414-6 Access mode: <http://znanium.com/catalog/product/513088>

9. Financial management in healthcare [Electronic resource]: textbook. Rakhypbekov T.K. - 3rd ed., add. - M. : GEOTAR-Media, 2013. Access mode:<http://www.studmedlib.ru/book/ISBN9785970425985.html>

#### **additional literature**

1. Artamonova G.V. Management and marketing in healthcare. Psychology of management. Part 1 [Electronic resource]: textbook / G.V. Artamonova, N.D. Bogomolov. — Electron. text data. - Kemerovo: Kemerovo State Medical Academy, 2006. - 128 p. — 2227-8397. Access mode:<http://www.iprbookshop.ru/6159.html>

2. Topical issues of management in health care [Electronic resource]: collection of materials of the Interregional scientific and practical conference / T.V. Ageeva [i dr.]. — Electron. text data. - Kemerovo: Kemerovo State Medical Academy, 2011. - 76 p. — 2227-8397. Access mode:<http://www.iprbookshop.ru/6041.html>

3. Begun T. V., Begun D. N. Modern problems of management in health care // Young scientist. - 2017.-No. 22.- P. 416-418.

4. Vesnin V.R. Fundamentals of management: textbook. Prospect, 2011.— 504 p.

5. Doroshenko G.V. Management in healthcare: Textbook / G.V. Doroshenko, N.I. Litvinova, N.A. Pronin. - 2nd ed., Rev. and additional - M.: Forum: INFRA-M, 2010. - 160 p. Access mode:<http://znanium.com/bookread.php?book=234145>

6. Health care of the Russian Far East in the context of market reforms: monograph. / V.G. Dyachenko, V.B. Prigornev, L.V. Solokhina [i dr.]. - Khabarovsk: Publishing House of the Far Eastern State Medical University, 2013. - 688 p.

7. Knyazyuk, N.F. Methodology for building an integrated management system for medical organizations / N.F. Knyazyuk, I.S. Kitsul. - M.: Manager of Health, 2013. - 311 p. : ill., tab. – (Management in health care). – Bibliography: p. 308–311. [medic.studio/zdravoohranenii.../metodologiya-postroeniya-integrirovannoy.html](http://medic.studio/zdravoohranenii.../metodologiya-postroeniya-integrirovannoy.html)

8. Lisitsin Yu.P., Ulumbekova G.E. Public health and healthcare: textbook / Yu.P. Lisitsin, G.E. Ulumbekov. - 3rd ed., revised. and additional - M.: GEOTAR-Media, 2015. - 544 p.: ill.

9. Medic V.A., Yuriev V.K. Public health and healthcare. Textbook. - M.: GEOTAR-Media, 2013. - 288 p.

10. Medvedev I.B. Financial management in medicine / I.B. Medvedev, V.D. Karmishin. - Moscow: Alligress, 2013. - 128 p. : ill. Access mode:[http://webirbis.spsl.nsc.ru/irbis64r\\_01/cgi/cgiirbis\\_64.exe](http://webirbis.spsl.nsc.ru/irbis64r_01/cgi/cgiirbis_64.exe)

11. Public health and health care, health economics: textbook: 2 vol. / Ed. V.Z. Kucherenko. M.: GEOTAR-Media, 2013. 160 p.  
[www.geotar.ru/lots/Q0121374.html](http://www.geotar.ru/lots/Q0121374.html)

12. Osipov G.V. Management: Textbook / G.V. Osipov, V.A. Lisichkin, N.D. Koryagin. - M.: Norma: INFRA-M, 2011. - 528 p. Access mode:<http://znanium.com/bookread.php?book=228690>

13. Sectoral structure of modern management: Textbook / Ed. MM. Maksimtsova, V.Ya. Gorfinkel. - M.: Vuzovsky textbook: INFRA-M, 2011. - 320 p. Access mode:<http://znanium.com/bookread.php?book=214774>

14. Entrepreneurship in the information sphere: Textbook / G.N. Isaev. - M.: Alfa-M: INFRA-M, 2011. - 288 p. Access mode:<http://znanium.com/bookread.php?book=210462>

15. Sabanov, V.I. Organization and management of the hospital: textbook. allowance / V.I. Sabanov, T.S. Dyachenko, V.V. Ivanenko; Volgograd state honey. un-t. - Volgograd: VolgGMU, 2014. - 137, [1] p. : ill. – Bibliography: p. 101.

16. Semenov, V.Yu. Health Economics: textbook. manual for the system of postgraduate prof. physician education: [marketing, management, planning, human resources, pharmacoconomics, economic analysis, health insurance, pricing, finance]. - 2nd ed., revised. – M.: Med. inform. agency, 2014. - 997 p. : diagrams, tab. – Bibliography: p. 984–992. Access mode: <https://docplayer.ru/29089875-Ekonomika-zdravoohraneniya.html>

17. Ulumbekova G.E. Health care of Russia. What to do. - 2nd ed. - M. : GEOTAR-Media, 2015. - 699 p. : col. ill., tab. – Bibliography: p. 669–699.

### **List of resources of the information and telecommunications network**

#### **"Internet"**

1. Patent database and search <http://www.freepatent.ru/>
2. Internet portal for healthcare <http://bio-x.ru/go.mail.ru/search?rf=e.mail.ru&fm=1&us=15&usln=3&usstr=health&usqid=7d41348ea69338f3&hasnavig=1&sbmt=1509229987234&q=health>
2. Research site <https://infopedia.su/4x3e87.html>;  
<https://dic.academic.ru/dic.nsf/ruwiki/663252>
3. SSAU Electronic Library - <http://library.sgau.ru>
4. NEB - <http://elibrary.ru>

5. <http://edu.znate.ru/docs/3997/index-94535-6.html>
6. Drobysheva V.V. Development of the life quality management system: theory, methodology, practice / V.V. Drobyshev. TSTU. - 2009. - 88 p.<http://window.edu.ru/resource/286/68286/files/Drobjsheva-l.pdf>
7. Ivanov V.V., Korobova A.N. Municipal management. Reference manual /V.V. Ivanov, A.N. Korobova 2012. - 717 p.<http://window.edu.ru/resource/947/14947>

### **Regulatory materials**

1. The Constitution of the Russian Federation.
2. Civil Code of the Russian Federation.
3. Criminal Code of the Russian Federation.
- four. Federal Law "Fundamentals of the legislation of the Russian Federation on the protection of the health of citizens" N 323-FZ of November 9, 2011 (as amended by Federal Laws of 06/25/2012 N 89-FZ, of 06/25/2012 N 93-FZ).

### **List of resources of the information and telecommunication network**

#### **Internet**

1. Patent database and patent search <http://www.freepatent.ru/>
2. Internet portal for health care <http://bio-x.ru/go.mail.ru/search?rf=e.mail.ru&fm=1&us=15&usln=3&usstr=health&usqid=7d41348ea69338f3&hasnavig=1&sbmt=1509229987234&q=health>
3. Research site <https://infopedia.su/4x3e87.html>; <https://dic.academic.ru/dic.nsf/ruwiki/663252>
4. NEB - <http://elibrary.ru>
- five. <http://edu.znate.ru/docs/3997/index-94535-6.html>
6. Scientific electronic library eLIBRARY.RU [Electronic resource]: Access mode: -<http://elibrary.ru>
7. Student library <http://www.studmedlib.ru>

### **Regulatory materials**

1. The Constitution of the Russian Federation.
2. Civil Code of the Russian Federation.
3. Criminal Code of the Russian Federation.
- four. Federal Law "Fundamentals of the legislation of the Russian Federation on the protection of the health of citizens" N 323-FZ of November 9, 2011 (as amended by Federal Laws of 06/25/2012 N 89-FZ, of 06/25/2012 N 93-FZ).

### **List of information technologies and software**

- Microsoft Office Professional Plus 2010;
- an office suite that includes software for working with various types of documents (texts, spreadsheets, databases, etc.);
- 7Zip 9.20 - free file archiver with a high degree of data compression;
- ABBYY FineReader 11 - software for optical character recognition;
- Adobe Acrobat XI Pro - a software package for creating and viewing electronic publications in PDF format;
- ESET Endpoint Security - comprehensive protection of workstations based on Windows OS. Virtualization support + new technologies;
- WinDjView 2.0.2 is a program for recognizing and viewing files with the same name format DJV and DjVu.

PAnnex 1

Review \_(evaluation from the employer)

for the main professional educational program of higher education -  
bachelor's, specialist's, master's, residency programs...

name of the direction of training / specialty (indicate the code and name according to the Federal State Educational Standard)

name of the educational program (orientation / profile according to the order for the approval of profiles). The main professional educational program of higher education (indicate the name of the direction (profile) of the educational program) (hereinafter - OBEP HE) was developed by a team of teachers of the department, department, department ... (indicate the name ... ..) (indicate the name of the institute / school / branch) FEFU.

OPOP VO is a system of documents developed on the basis of the educational standard of higher education (hereinafter - OS VO FEFU / FSES HE) (indicate the one you need) in the direction of preparation \_\_. \_\_., level (indicate the level - bachelor's / master's / specialist / residency) , approved by order .....

The reviewed OBEP VO includes: general characteristics; a description of the professional activity of a bachelor (master, specialist - choose the right one); graduate competencies formed

as a result of mastering the BEP HE; calendar study schedule; syllabus; work programs of disciplines; practice programs, methodological materials that ensure the implementation of the appropriate educational technology; a list of educational literature necessary for the study of disciplines, practices, a program of state final certification, including funds of assessment materials for ongoing monitoring of progress, intermediate and state final certification and other regulatory and methodological documents and materials that ensure high quality training of students.

OBEP VO regulates the goals, expected results, content, conditions and technologies for the implementation of the educational process, assessment of the quality of graduate training in this area of training (specialty).

The goal of the OBOR is (the goal of the OBOR is indicated from the main characteristic). Bachelors (masters/specialists - choose the one you need) who have mastered this educational program are ready to perform the following types of professional tasks:

\_\_\_\_\_.

OPOP VO meets the requirements of the Federal State Educational Standard of VO / OS VO of FEFU in terms of structure and content. The competence of graduates, planned in the OBEP HE, meets the requirements (indicate the employer's organization) for employees of the relevant functional. Graduates can successfully occupy a number of ..... positions (listed are several positions corresponding to the level of qualification):

The quality of the content component of the curriculum is beyond doubt. The structure of the curriculum is generally logical and consistent. Evaluation of the work programs of disciplines allows us to conclude that there is a sufficient level of both material and methodological support. The content complies with the requirements of the main characteristics of the OPOP VO. Educational work of students.....

Conclusion:

Reviewer:



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
**"Far Eastern Federal University"**  
(FEFU)  
SCHOOL OF BIOMEDICINE

**Department of Pharmacy and Pharmacology**

**Full Name**

NAME OF THE TOPIC OF THE FINAL QUALIFICATION WORK

**FINAL QUALIFICATION WORK**

on the main educational program for the preparation of masters  
in the field of study 32.04.01 Public health, master's program "Leadership and governance in  
public health (program in English for foreign citizens)»

Vladivostok  
2022

Application ending 2

The author of the work is a student group \_\_\_\_\_

" \_\_\_\_\_ " \_\_\_\_\_ 20\_\_

Head of WRC \_\_\_\_\_  
(position, academic title)

\_\_\_\_\_  
(signature) (full name)

" \_\_\_\_\_ " \_\_\_\_\_ 20\_\_

Protected in the SEC with an assessment

\_\_\_\_\_  
Secretary of the SEC

\_\_\_\_\_  
signature I.O. Surname

" \_\_\_\_\_ " \_\_\_\_\_ 20\_\_

"Admit to the defense"

Department Director \_\_\_\_\_  
(academic title)

\_\_\_\_\_  
(signature) (full name)

" \_\_\_\_\_ " \_\_\_\_\_ 20\_\_



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education

**"Far Eastern Federal University"**  
(FEFU)

**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**EXERCISE**  
for graduate work

student (s) Surname First name Patronymic (Danish case) group \_\_\_\_\_  
(Full Name)

on the topic of *Name of WRC topic*

Questions to be developed (research):

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The main sources of information and others used to develop the theme:

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Deadline for submission of work " \_\_\_\_\_ " \_\_\_\_\_ 20

Date of issue of the task " \_\_\_\_\_ " \_\_\_\_\_ 20

Head of WRC \_\_\_\_\_  
(position, academic title)(signature) (a.o.f)

The task was received by \_\_\_\_\_  
(signature) (acting)





MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
**"Far Eastern Federal University"**  
(FEFU)  
**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**SCHEDULE**

preparation and registration of the final qualification work

student(s) Surname First name Patronymic (Danish case) group \_\_\_\_\_  
(Full Name)

on the topic of *Name of WRC topic*

No. p / p	Performed works and activities	Term fulfillment	Completion mark
1	Choice of topic and coordination with the head		
2	Drawing up a work plan. Selection of primary material, its study and processing. Preparation of a preliminary bibliography		
3	Development and presentation to the head of the first part of the work		
four	Preparation of tasks for undergraduate practice and collection of material for the implementation of the WRC		
five	Development and presentation to the head of the second part of the work		
6	Development and presentation to the head of the third part of the work		
7	Preparation and coordination with the head of conclusions, introductions and conclusions. Preparation of the presentation of the work		
8	Finalization of WRC in accordance with the comments of the head		
nine	The first check of VKR in the Anti-Plagiarism system		
10	Correction of possible fragments of plagiarism		
eleven	Pre-defense of the WRC at a meeting of the graduating department		
12	Finalization of the WRC in accordance with the comments made at the pre-defense		
13	The second check of the WRC in the Anti-Plagiarism system and submission to the supervisor for verification in order to receive feedback		
fourteen	Completion of preparation for the defense (report, handout, presentation in Power Point)		

Student \_\_\_\_\_  
(signature)

(acting surname)

" \_\_\_\_ " \_\_\_\_\_ 20

Head of WRC \_\_\_\_\_

(position, academic title)

(signature) (acting surname)

" " \_\_\_\_\_ 20



**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION**  
**Federal State Autonomous Educational Institution of Higher Education**  
**"Far Eastern Federal University"**  
**(FEFU)**  
**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**REVIEW OF THE MANAGER**

for the final qualifying work of the student (s) Surname First name Patronymic (Danish case)\_\_\_\_

\_\_\_\_\_ (Full Name)

specialty (direction) 32.04.01 Public health group M \_\_\_\_\_

Head of WRC \_\_\_\_\_ (academic degree, academic title, acting name)

on the topic of \_\_\_\_\_ Name of WRC topic \_\_\_\_\_

WRC defense date "\_\_\_\_" \_\_\_\_\_ 20\_\_\_\_

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Head of WRC \_\_\_\_\_  
(position, academic title) (signature) (a.o.f)

" \_\_\_\_ " \_\_\_\_\_ 20

The review notes: Compliance of WRC registration with the stated requirements; the field of science, the relevance of the topic of the WRC; the authorship of the applicant in conducting the study and obtaining the results and the degree of independent performance of the work set out in the WRC, the validity and reliability of the results obtained; responsibility and performance of the graduate; the ability to analyze, generalize, draw conclusions, consistently and competently present the material; originality of ideas; degree of novelty, scientific and practical significance of the research results; practical, economic and social significance of the obtained results; approbation and possible scales of use of the main provisions and results of the work; indicate shortcomings.

The final part of the review contains a conclusion on the compliance of the WRC with the established requirements, a wording on the possibility of awarding a master's degree and an assessment of the qualifying work.



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
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**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**REVIEW**

for the final qualifying work of the student (s) Surname First name Patronymic (Danish case)\_\_\_

\_\_\_\_\_  
 (Full Name)

Area of study 32.04.01 Public health group \_\_\_\_\_

Master Program "Organization and management of medical and pharmaceutical activities»

Head of WRC \_\_\_\_\_  
 (academic degree, academic title, acting name)

on the topic of Name of WRC topic

WRC defense date " \_\_\_ " \_\_\_\_\_ 20

<b>1. Relevance of WRC</b>
<b>2. Advantages of work:</b>
<b>3. Disadvantages and remarks:</b>
<b>4. Appropriateness:</b>
<b>5. General conclusion:</b>

**Grade** \_\_\_\_\_

**Reviewer** \_\_\_\_\_

(position, academic title) (signature) (full name)

" \_\_\_ " \_\_\_\_\_ 20

## Appeal Form

Chairman of the Appeal Commission

\_\_\_\_\_

position, full name

group student \_\_\_\_\_

\_\_\_\_\_

name of FEFU school

\_\_\_\_\_

FULL NAME.

### APPEALS

#### **on violation of the procedure for conducting the state certification test and / or on disagreement with the results of the state certification test**

I ask you to consider my appeal about the violation of the procedure for conducting a state certification test \_\_\_\_\_

(state exam or WRC defense)

and / or disagreement with the results of the state attestation test

\_\_\_\_\_

(state exam or WRC defense)

in the direction of training / specialty \_\_\_\_\_

(code, name)

\_\_\_\_\_ ,

held " \_\_\_\_\_ " \_\_\_\_\_ 20\_\_

Content of the claim:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The indicated fact(s) made it significantly difficult for me to complete the tasks (the defense of the WRC), which could lead to a biased assessment (for an appeal about a violation of the procedure for conducting a state attestation test).

Based on the foregoing, I consider the assessment given to me unreasonable and ask you to reconsider the results \_\_\_\_\_

(state exam or WRC defense)

*(for an appeal of disagreement with the results of the state certification test).*

Signature

Date: " \_\_\_\_\_ " \_\_\_\_\_ 20\_\_

**The form of the conclusion of the chairman of the SEC on compliance with procedural questions during the state certification test**

**Conclusion**

Chairman of the State Examination Commission  
on the observance of procedural issues during the  
state attestation test

**Direction of training / (specialty)** \_\_\_\_\_  
(code, name)

**Traffic police form:** \_\_\_\_\_  
(state exam or WRC defense)

**Date and time of the event:** " \_\_\_\_ " \_\_\_\_\_ 20\_\_\_\_  
from \_\_\_\_ h. \_\_\_\_ min. up to \_\_\_\_ h. \_\_\_\_ min.

During the state attestation test (indicate the specific form of the traffic police), there were no violations of procedural issues / the following violations of procedural issues were committed (indicate specific facts of violation of procedural issues):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Chairman of the SEC**

\_\_\_\_\_  
(academic degree, title, position)      (signature)      (full name)

## Form of the minutes of the meeting of the appeal commission



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
"Far Eastern Federal University"  
(FEFU)  
SCHOOL OF BIOMEDICINE

MINUTES No. \_\_\_\_\_ dated " \_\_\_\_\_ " \_\_\_\_\_ 20 \_\_\_\_\_  
Board of Appeal meetings

in the direction of training (specialty) \_\_\_\_\_  
(code, name)

**PRESENT:**

Chairman \_\_\_\_\_ of \_\_\_\_\_ the \_\_\_\_\_ commission:

Commission \_\_\_\_\_ members:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**1. Listened to the student's appeal statement** \_\_\_\_\_  
(full name, group)

about violation of the procedure for conducting the state attestation test  
\_\_\_\_\_ and / or about disagreement with the results

(state exam or WRC defense)

state attestation test \_\_\_\_\_  
(state exam or WRC defense)

**Attached to the application:**

minutes of the SEC meeting;

the conclusion of the chairman of the SEC on compliance with procedural issues during the state certification test;

written responses of the student (if any) (for consideration of the appeal *for the state exam*);

final qualifying work, review and review (reviews) (to consider an appeal for the defense of the final qualifying work).

**2. Resolved:** *(you must select the appropriate option(s))*

Reject the appeal, leave the results of the state attestation test unchanged.

Satisfy the appeal. Cancel the results of the state attestation test. Student

\_\_\_\_\_  
(full name, group)



\_\_\_\_\_ provide an opportunity to pass the relevant state certification test again in additional terms (for appeal on violation of the procedure for conducting the state attestation test).

Satisfy the appeal. Cancel the results of the state attestation test. Submit for passing state attestation test

\_\_\_\_\_  
(state exam or WRC defense)

assessment \_\_\_\_\_ (for  
appeal

(excellent, good, satisfactory, unsatisfactory)

on disagreement with the results of the state attestation test).

### **Chairman of the Appeal Commission**

\_\_\_\_\_  
(position)

\_\_\_\_\_  
(signature)

\_\_\_\_\_  
(full name)



MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION  
Federal State Autonomous Educational Institution of Higher Education  
**"Far Eastern Federal University"**  
(FEFU)  
**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**VALUATION FUND  
FOR STATE FINAL CERTIFICATION**  
Area of study 32.04.01 Public health  
Master Program: **"Leadership and governance in public health (program in English for  
foreign citizens)»**  
**Full-time training form**

**Vladivostok  
2020**



**List of competencies that students should master as a result of mastering the educational program, description of indicators and criteria for their assessment at various stages of formation, assessment scale**

Code and wording of competence	Stages of competence formation		criteria	indicators
<b>UK-1</b> -the ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	knows (threshold level)	principles of organizing applied and practical projects and other activities for the study and modeling of social, economic, epidemiological and other conditions that affect the health and quality of life of the population based on a systematic approach	knowledge of the basics of planning and organizing measures to ensure the protection of public health based on a critical analysis of problem situations	the ability to explain the basics of planning and organizing activities to ensure the protection of public health based on a systematic approach, followed by the development of an action strategy to overcome problem situations
	can (advanced level)	carry out applied and practical projects and other activities to study and model social, economic, epidemiological and other conditions that affect the health and quality of life of the population, carry out a critical analysis of problem situations based on a systematic approach	the ability to properly draw up official medical documents, to carry out measures to ensure the protection of public health with a critical analysis of problematic situations based on a systematic approach	the ability to properly justify the implementation of measures to ensure the protection of public health, draw up official medical documents, resolve problem situations based on a systematic approach, develop an action strategy
	owns (high level)	skills in organizing applied and practical projects and other activities to study and model social, economic, epidemiological and other conditions that affect the health and quality of life of the population, critical analysis of problem situations in a medical	possession of methods for planning and organizing measures to ensure the protection of public health based on the implementation of a critical analysis of problematic situations in a medical organization based on	the ability to formulate the tasks of planning and organizing measures to ensure the protection of public health by conducting a critical analysis of problematic situations in a medical organization based on a

		organization based on a systematic approach, followed by the development of an action strategy	a systematic approach	systematic approach, followed by the development of an action strategy
<b>UK-2</b> -the ability to generate ideas in scientific and professional activities	knows (threshold level)	principles for the development of research projects	knows the methods of scientific research	carries out scientific research using modern ideas
	can (advanced level)	apply knowledge to the development of a scientific project as part of a team of authors	able to participate in a scientific project in a team of authors	independently leads the team of authors in scientific professional activities
	owns (high level)	skills in the development of scientific projects as part of the team of authors	able to participate in the development of a scientific project in a team of authors	independently leads the team of authors in scientific professional activities
<b>UK-3</b> - the ability to organize and manage the work of the team, developing a team strategy to achieve the goal	knows (threshold level)	concepts of leadership, teamwork, responsibility, modern aspects of medical law, the main provisions and norms of the leading branches of law (civil, family, labor, administrative law), as guarantors of ensuring the rights and legitimate interests of citizens of the Russian Federation in the field of healthcare	knowledge of the main points of the leader's work, teamwork, issues of modern law in medical practice	the ability to use the basic provisions and norms of the leading branches of law to protect professional activities
	can (advanced level)	work in a team, able to act within the framework of agreed goals and objectives; able to take personal responsibility and leadership in the planning and implementation of professional activities	adequately apply the necessary rules of law in their professional activities and in the work of healthcare institutions	solve practical problems in the formation of a culture of professional communication between a doctor and patients, colleagues and management
	owns (high level)	teamwork skills; the ability to act within the framework of agreed goals and objectives; the ability to take personal responsibility and leadership in the planning and	analytical skillsanalysis of the influence of a doctor's professional ethics on the quality and availability of medical care to patients	prepares proposals on certain issues of improving moral standards in the activities of medical organizations

		implementation of professional activities, tolerantly perceiving social, ethnic, confessional and cultural differences		
<b>UK-4</b> -the ability to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	knows (threshold level)	principles of scientific and professional communication in a foreign language environment, one of the foreign languages	uses the principles of free scientific and professional communication to solve the problems of professional activity	participates personally in the organization of free scientific and professional communication and in a foreign language environment
	can (advanced level)	use a foreign language in professional activities, evaluate foreign-language publications	uses knowledge of a foreign language for scientific and professional communication	personal participation in free scientific and professional communication and in a foreign language environment
	owns (high level)	information on health issues in foreign literature skills of free scientific and professional communication in a foreign language environment	able and ready to use communication methods when getting acquainted with information in foreign literature	organizes public events to get acquainted with information on health problems in foreign literature with colleagues in a foreign language environment
<b>UK-5</b> - the ability to analyze and take into account the diversity of cultures in the process of intercultural interaction	knows (threshold level)	principles of scientific and professional communication in a foreign language environment using knowledge of a foreign language in the process of intercultural interaction	uses the principles of organizing public events to solve the problems of professional activity in the process of intercultural interaction	personally participates in the organization of public events to solve the problems of professional activity, taking into account the diversity of cultures in the process of intercultural interaction
	can (advanced level)	use a foreign language in professional activities, evaluate foreign-language publications	use participation in public events to solve the problems of professional activity in the process of intercultural interaction	personal participation in public events with the possibility of solving problems on IT technologies in the process of intercultural interaction

	owns (high level)	information on health issues in foreign literature, skills of free scientific and professional communication in a foreign language environment	capable and ready to organize public events, incl. in the process of intercultural interaction	organizes public events to solve the problems of professional activity, including in the process of intercultural interaction
<b>UK-6</b> - the ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment	knows (threshold level)	main methods of scientific research in health care	knowledge of the basics of scientific research	ability to explain the technology of one's own activity
	can (advanced level)	use knowledge about scientific research in medicine based on the priorities of their own activities	ability to use knowledge	the ability to justify the priorities of one's own activities
	owns (high level)	knowledge about scientific directions in health care and how to manage them based on self-assessment	possession of ways to manage their own activities in a medical organization	the ability to formulate goals, objectives, stages of one's own activity and ways to improve it based on self-assessment
<b>GPC 1</b> -ability to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	knows (threshold level)	principles of preparation and application of scientific, research and production, design, organizational, managerial and regulatory documentation	basic knowledge of application scientific, research and production, design, organizational, managerial and regulatory documentation	the ability to explain and apply scientific, research and production, design, organizational, managerial and regulatory documentation
	can (advanced level)	prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	ability to use scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	the ability to use scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system

	owns (high level)	skills in the preparation of scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	possession of ways to manage scientific and production, design, organizational, managerial and regulatory documentation in the healthcare system	the ability to organize work on the use of scientific and production, design, organizational, managerial and regulatory documentation in the healthcare system
<b>GPC 2</b> -the ability to use information technology in professional activities, to comply with the basic requirements of information security	knows (threshold level)	principles of using information technologies	knowledge of the basic concepts of information technology in research processes in medicine	ability to explain the use of information technology
	can (advanced level)	apply knowledge on the use of information technology in practice	ability to apply IT technologies in practice	the ability to substantiate the criteria for evaluating IT technologies in practice
	owns (high level)	skills in working with information technologies in healthcare in compliance with the basic requirements of information security	methods of collecting, processing, analyzing information and their presentation in practice based on information security	the ability to formulate and explain the need to use information technology in the work of medical organizations in compliance with the basic requirements of information security
<b>OPK-3</b> ability to implement management principles in professional activities	knows (threshold level)	modern methods of collecting and processing information for the implementation of management principles in professional activities	basic concepts of research processes in medicine for the implementation of management principles in professional activities	the main stages of the study on assessing the quality of medical care, taking into account implementation of management principles in professional activities
	can (advanced level)	carry out the implementation of statistical analysis in the	analyze and compare the stages of the process of	substantiate the criteria for assessing the implementation



		implementation of management principles in professional activities	assessing and implementing management principles in professional activities	of management principles in professional activities
	owns (high level)	skills in planning, studying, analyzing, evaluating trends, predicting measures to ensure the protection of public health while implementing management principles in professional activities	methods of collecting, processing, analyzing information and presenting them to assess the quality of medical care when implementing management principles in professional activities	the ability to formulate the main stages and explain the tasks to achieve the goal of assessing the quality of medical care in the implementation of management principles in professional activities
<b>OPK-4</b> the ability to apply modern methods of collecting and processing information, to conduct statistical analysis and interpret the results, to study, analyze, evaluate trends, to predict the development of events in the state of population health	knows (threshold level)	principles of preparation and application of scientific, research and production, design, organizational, managerial and regulatory documentation	knows the principles of working with scientific and production documentation	stages of statistical analysis
	can (advanced level)	prepare scientific, research and production, design, organizational, managerial and regulatory documentation for predicting the development of events in the state of population health	adequately apply project and regulatory documentation in professional activities on forecasting the development of events in the state of population health of the population	apply computer technologies in the collection, storage, analysis and transmission of biological information forecasting the development of events in the state of population health of the population
	owns (high level)	skills in the preparation of scientific, research and production, design, organizational, managerial and regulatory documentation for forecasting the development of events in the state of population health of the population	skills in preparing organizational and managerial documentation in a medical organization for forecasting the development of events in the state of population health of the population	is able to personally develop and prepare organizational, managerial and regulatory documentation for professional activities; has methods of multivariate statistics and methods of biological information processing for solving professional problems.

<b>OPK-5</b> the ability to organize public events to solve the problems of professional activity, including with international partners	knows (threshold level)	principles of organizing public events to solve the problems of professional activity, including with international partners	uses the principles of organizing public events to solve the problems of professional activity	personally participates in the organization of public events to solve the problems of professional activity, including international partners
	can (advanced level)	take part in public events to solve the problems of professional activity, including with international partners	use participation in public events to solve the problems of professional activity	personal participation in public events with the possibility of solving problems in IT technologies with international partners
	owns (high level)	skills of ability and readiness to organize public events to solve the problems of professional activity, including with international partners	capable and ready to organize public events, incl. with international partners	organizes public events to solve the problems of professional activity, including with international partners
<b>OPK-6</b> the ability to organize patient care and provide first pre-hospital medical care in emergency conditions in emergency situations, epidemics, in centers of mass destruction	knows (threshold level)	basics of planning and organizing measures to ensure the protection of public health in emergency situations, epidemics, in the centers of mass destruction	knowledge of the basics of planning and organizing measures to ensure the protection of public health in conditions of emergencies, epidemics, in centers of mass destruction	ability to organize patient care and provide first pre-hospital medical care in case of emergency
	can (advanced level)	plan activities to ensure the organization of patient care and the provision of first pre-medical health care in emergency conditions	the ability to provide primary pre-medical care in emergency situations, epidemics, in the centers of mass destruction	the ability to organize patient care and provide first pre-hospital medical care in emergency conditions in emergency situations, epidemics, in centers of mass destruction

	owns (high level)	methods of planning and organizing measures to ensure the protection of public health in emergency situations, epidemics, in the centers of mass destruction	knowledge of the basics of scientific research and methods of planning and organizing activities for the organization of patient care and the provision of first pre-medical health care in emergency conditions	methods and carries out measures to ensure the protection of public health in emergency conditions in emergency situations, epidemics, in the centers of mass destruction
<b>PC-1</b> the ability to calculate, evaluate and analyze indicators characterizing the activities of a medical organization, and indicators characterizing the state of health of the population	knows (threshold level)	principles for organizing applied and practical projects and other activities for the study and modeling of social, economic, epidemiological and other conditions that affect the health and quality of life of the population	knows modern organizations of applied and practical projects and other activities for the study and modeling	knowledge and use in practical work of the principles of organizing applied and practical projects to study social, economic and anti-epidemic conditions that affect public health
	can (advanced level)	carry out applied and practical projects and other activities to study and model social, economic, epidemiological and other conditions that affect the health and quality of life of the population	apply applied and practical projects and other activities to study the conditions that affect the health and quality of life of the population	apply in practice practical projects and other activities to study the conditions that affect the health and quality of life of the population
	owns (high level)	skills in organizing applied and practical projects and other activities to study and model social, economic, epidemiological and other conditions that affect the health and quality of life of the population	is able to organize practical projects to identify conditions that affect the health status and quality of life of the population	owns the principles of organizing applied and practical projects and other activities to study the conditions and risk factors that affect the health and quality of life of the population
<b>PC-2</b> the ability to prepare presentation materials, information and analytical materials, information about the activities of a medical	knows (threshold level)	principles of organization of research work, methods of preparation of presentation materials, information and analytical references	knowledge of the basic concepts of research processes in medicine, methods of preparing presentation materials	prepare presentation materials, information and analytical materials, information about the activities of a medical organization

organization or its divisions, conducting organizational and methodological activities in a medical organization				
	can (advanced level)	set and select the goal of the work, formulate tasks, publicly present the results of scientific work, prepare a certificate on the activities of a medical organization or its structural divisions	the ability to analyze and compare the stages of the process in the preparation of presentation materials, information and analytical materials, information about the activities of a medical organization	substantiate the criteria for evaluating the process of preparing presentation materials, information and analytical materials, information about the activities of a medical organization or its divisions
	owns (high level)	methods of collecting, processing, analyzing information, knowledge of scientific areas in healthcare, ways to manage them, as well as methods and methods of conducting organizational and methodological activities in a medical organization	methods of collecting, processing, analyzing information and presenting them in the form of presentation materials, information about the medical activities of the organization	the ability to formulate the main stages and explain the tasks to achieve the goal when showing presentation materials about the activities of a medical organization or its structural division, as well as the implementation of organizational and methodological activities in a medical organization
<b>PC-3</b> the ability to organize, plan and control the activities of a structural unit of a medical organization	knows (threshold level)	basics of planning, organization and implementation of the activities of a structural unit of a medical organization	knowledge of the basics of planning and controlling the activities of a structural unit of a medical organization	the ability to draw up the necessary documentation for planning and controlling the activities of a structural unit of a medical organization
	can (advanced level)	analyze and evaluate performance indicators of a structural unit of a medical organization	the ability to analyze and evaluate the performance of a structural unit of a medical organization	the ability to substantiate the criteria for assessing the organization, planning and control of the activities of a structural unit of a medical

				organization
	owns (high level)	skills in preparing justification of volumes medical care in accordance with the necessary resources in the structural unit of the medical organization	methods for substantiating the volume of medical care in a structural unit of a medical organization	the ability to prepare the necessary calculations for the organization, planning and control of the activities of the structural unit of a medical organization
<b>PC-4</b> The ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement a quality management system in a medical organization, prepare a rationale for the volume of medical care in accordance with the resources of a medical organization and the needs of the population	knows (threshold level)	basics of planning and organizing measures to ensure the protection of public health in accordance with the resources of the medical organization and the needs of the population	knowledge of the basics of planning and organizing measures to ensure the protection of public health in accordance with the resources of the medical organization and the needs of the population	the ability to explain and apply in practice the basics of planning and organizing activities to ensure the protection of public health in accordance with the resources of the medical organization and the needs of the population
	can (advanced level)	properly draw up official medical documents, maintain primary medical records, take measures to ensure health protection, analyze and evaluate the performance of a medical organization	analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement quality management systems in a medical organization, justify the volume of medical care in accordance with the resources of a medical organization and the needs of the population	ability to analyze and evaluate the performance of a medical organization, manage the resources of a medical organization, develop and implement a quality management system in a medical organization in accordance with the resources of a medical organization and the needs of the population

	owns (high level)	methods of planning and organizing measures to ensure the protection of public health, development and implementation of a quality management system in a medical organization, preparation of a rationale for the volume of medical care in accordance with the resources of a medical organization and the needs of the population	possession of methods for planning and organizing measures to ensure the protection of public health, analysis and evaluation of performance indicators of a medical organization, resource management of a medical organization, development and implementation of a quality management system in a medical organization	ability analyzing and evaluating the performance of a medical organization, managing the resources of a medical organization, developing and implementing a quality management system in a medical organization, preparing a justification for the volume of medical care in accordance with the resources of a medical organization and the needs of the population
<b>PC-5</b> The ability to assess the effectiveness of the activities of a medical organization, develop and select optimal management decisions, develop a business plan for the development of a medical organization, use a process approach in managing a medical organization, use technological maps of the processes of a medical organization	knows (threshold level)	principles of goal setting, types and methods of organizational planning and fundamental concepts of financial management	knowledge of the basic concepts of research processes, incl. business processes in medicine	the ability to explain the main stages of the study of the business plan of a medical organization, the process approach in the management of a medical organization
	can (advanced level)	develop corporate, competitive and functional strategies for the development of the organization, develop investment projects and conduct their verification	the ability to analyze and compare the stages of the process of strategic development of a medical organization, business planning and the use of technological maps of the processes of medical activity	the ability to develop investment projects and conduct their verification based on the use of a process approach in the management of a medical organization and the use of technological maps of the processes of medical activity
	owns (high level)	methods for formulating and implementing strategies at the business unit level, developing and implementing marketing programs,	methods of collecting, processing, analyzing information and presenting them to implement the	the ability to formulate the main stages and explain the tasks for the implementation of marketing programs and

		as well as methods for investment analysis and analysis of financial markets	business strategies of a medical organization using flow charts of medical activities	the analysis of financial markets using a process approach in the management of a medical organization and the use of technological process maps of medical activities
PC-6 the ability to develop plans and programs, form a system of indicators for the activities of a medical organization, evaluate the effectiveness of a medical organization, develop options for management decisions and assess the risks associated with their implementation	knows (threshold level)	fundamentals of planning and principles of organizing and implementing measures to ensure the protection of public health, the main indicators of the activities of a medical organization	the basics of planning measures to ensure the protection of public health and is able to evaluate the effectiveness of a medical organization	application of the basics of planning measures to ensure the protection of public health, a system of indicators of the activities of a medical organization, taking into account management decisions
	can (advanced level)	plan measures to ensure the protection of public health; develop plans and programs, form a system of indicators for the activities of a medical organization	properly draw up official medical documents, maintain primary medical records, develop options for management decisions and assess the risks associated with their implementation	realize measures to ensure the protection of public health, form a system of indicators of the activities of a medical organization, evaluate the effectiveness of the activities of a medical organization
	owns (high level)	skills in planning, organizing and implementing measures to ensure the protection of public health	skills in preparing a rationale for the volume of medical care in accordance with the resources of a medical organization and the needs of the population	justification of the volume of medical care in accordance with the resources of the medical organization and the needs of the population, options for management decisions and risk assessment associated with their implementation





## 2. Grading scale and criteria for evaluating the results of the defense of the WRC

The main objects of evaluation of the results of the defense of the final qualifying work (master's thesis):

- business activity of the student in the process of preparing the WRC;
- the content and quality of the performance of the WRC, its design;
- the level of responses during the defense of the WRC;
- characteristics and evaluation of the student's work by the head of the WRC and the reviewer.

When performing and defending the final qualification work, students must demonstrate:

- skills of setting a research problem, the ability to assess its relevance and justify the purpose and objectives of the study;
- the ability to reasonably choose and correctly use the most effective methods for solving problems;
- ability to analyze own results, formulate correct conclusions; – the skill of conducting a bibliographic search, analysis and use of scientific and technical literature and regulatory legal acts on the topic under study; - the degree of professional readiness, reflected both in the content of the final qualifying work, and in the process of its defense;
- the ability to clearly and reasonably answer the questions asked in the process of defense;
- the ability to competently, using special terminology and vocabulary, clearly, in a logical sequence to state the content of the work performed;
- ability to use computer technologies in work.

### Appraisal tools used:

Final qualifying work, report, answers to questions.

### Criteria for evaluating the final qualifying work

Scale evaluation	Evaluation criteria
Grade "Great"	exhibited if: the work is relevant and has a research character; competent, logical, consistent presentation of the material; execution of work at a high level and meets the established requirements; conclusions and proposals are reasoned, substantiated and have practical significance in the professional field; during the report, the student uses a presentation that gives a complete picture of the results of the completed final qualification work, contains the main provisions of the work and conclusions in a visual form, and fully illustrates the report; when defending the work, the student demonstrates deep knowledge of the theoretical issues of the topic of the final qualified work; the ability to analyze

	<p>scientific, technical, regulatory and factual information received, to draw appropriate reasoned conclusions; owns modern methods of research and processing of the received factual data; owns a competent style of speech, easily, fully and to the point answers the questions posed, reasonably defends the main conclusions of the work; the work has a positive feedback from the head of the WRC and the reviewer</p>
<p>Grade "Good"</p>	<p>exhibited if: the work is relevant and has a research character; competent, logical, consistent presentation of the material; execution of work at a good level and meets the established requirements; the conclusions are reasoned, but the proposals are not fully substantiated, they have some practical significance in the professional sphere; during the report, uses a presentation that gives an idea of the results of the final qualification work, contains the main provisions of the work and conclusions in a visual form; when defending the work, the student shows knowledge of the theoretical issues of the topic of the final qualified work; the ability to analyze scientific, technical, regulatory and factual information received, to draw appropriate logical conclusions; owns modern methods of research and processing of the received factual data; single (rough) stylistic and speech errors, without much difficulty answers the questions posed, knows how to defend the main conclusions of his work; the work has a positive feedback from the head of the WRC and the reviewer</p>
<p>Grade "satisfactory"</p>	<p>exhibited if: the work is relevant and has elements of a research nature; the work shows inconsistency in the presentation of the material; the design of the work as a whole meets the requirements, but there are a number of errors; based on practical material, but the analysis is superficial, the conclusions may have some practical value in the professional field; when defending the work, the student shows uncertain knowledge of the theoretical issues of the topic of the final qualified work; insufficiently owns the research methodology, therefore, unreasonable proposals are presented; has stylistic and speech errors, does not give a full reasoned answer to the questions asked, does not defend the main conclusions of the work without reason; during the report uses a presentation, which does not give a complete picture of the results of the final qualifying work in a visual form; in the reviews of the head of the WRC and the reviewer there are comments on the content of the work and the methodology of analysis</p>
<p>Grade "unsatisfactory"</p>	<p>exhibited if: the work is not research, is of a compilation nature; inconsistent presentation of the material; the design of the work does not meet the requirements or contains many errors; conclusions are declarative; when defending the work, the student shows ignorance of the theoretical issues of the topic of the final qualified work; demonstrates the lack of independence of the analysis of the material; gross stylistic and speech errors, finds it difficult to answer the questions posed, makes significant mistakes when answering; inability to defend the main provisions of the work; during the report uses a presentation that does not give an idea of the results of the work performed</p>

### **3. Typical control tasks or other materials necessary to evaluate the results of mastering the educational program**

#### **Approximate topics of final qualifying works**

1. Improving the efficiency of medical organizations based on strategic planning and infrastructure development in order to improve the quality of medical care to the population
2. Transport model as a digital platform for managing population mobility in order to provide timely medical care to the population of remote areas of Primorsky Krai.
3. Risk management in medical organizations in Vladivostok as an innovative economic component.
4. Application of modern information technologies in the management of medical organizations.
5. Development of special PC programs for processing information flows in medical organizations in the region.
6. Improving the methods and means of providing information to the population on issues of preventive medicine.
7. Development and implementation of measures to ensure the safety of movement of people with limited mobility in medical organizations.
8. Evaluation of the economic efficiency of investments in the organization of specialized types of medical care for the population of the region (on the example of the Regional Perinatal Center).
9. Rationing of labor, improvement of the organization and systems of remuneration in medical organizations at the present level.
10. Organization of the work of autonomous medical organizations.
11. Assessment of the competitiveness of a medical organization, determination of effective market segments.
12. Analysis of the competitiveness of medical services.
13. Development of a system for ensuring the efficiency and safety of providing quality medical care to the population.
14. Optimization of the work of the medical organization of primary health care based on the application and improvement of methods and means of information support.
15. Development of a patient routing system in the provision of high-tech medical care on the example of the FEFU Medical Center.

#### **4. Methodological materials that determine the procedures for evaluating the results of mastering the educational program**

The final certification is a form of assessing the degree of mastering the educational program by students, determines the level of readiness of graduates to perform professional tasks and the level of compliance of the training they received in the process of training with the requirements of the FEFU HE, is carried out on the basis of the principles of objectivity and independent assessment of the quality of training of students.

The final qualifying work is evaluated by the members of the graduation attestation commission, taking into account the review of the supervisor and the reviewer's assessment. This takes into account:

- the level of theoretical and research study of the problem;
- the quality and compliance of the research methodology with the problem;
- completeness, consistency and multivariance of approaches to solving the problem under consideration;
- the effectiveness of solving a specific scientific and practical applied problem that is important for a particular branch of science;
- the possibility of implementation;
- degree of independence;
- design of the WRC, the quality of the report and visual materials.

Graduate qualifying work in accordance with the curriculum and the schedule of the educational process is carried out during the period of undergraduate practice and research work and is an independent and logically completed work that contains a set of results put forward for public defense.



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(FEFU)  
**SCHOOL OF BIOMEDICINE**

**Department of Pharmacy and Pharmacology**

**REQUIREMENTS FOR CONTENT AND DESIGN**

**FINAL QUALIFICATION WORK**

**Area of study 32.04.01 Public health**

Master Program: "Leadership and governance in public health (program in English for foreign citizens)»

**Full-time training form**

**Vladivostok**

**2022**

The final qualifying work is the result of independent creative work of a master student and is aimed at systematizing, consolidating and deepening knowledge and the effective application of skills in the direction of training and solving specific problems. The quality of its implementation allows us to give a differentiated assessment of the graduate's qualifications, the ability to fulfill their future duties in the organization. If the final qualifying work is done at a high theoretical and practical level, it should be presented to the management of the organization, on the basis of which the research was conducted, in order to decide on the possibility of implementing the developed measures.

Work on the final qualifying work involves the independent performance of qualifying theoretical or applied scientific work, in which, on the basis of the author's generalization and analysis of scientific and practical information, author's research, tasks that are important for a certain field of knowledge are solved. WRC belongs to the category of educational and research work, is carried out by the student on the basis of materials collected during the period of study in the magistracy and in the process of research practice.

The WRC should confirm the author's ability to independently conduct a scientific search, using theoretical knowledge and practical skills, to identify and formulate professional problems, to know the methods and techniques for solving them. The content of the work can be the results of theoretical research, the development of new methods and methodological approaches to solving scientific problems, solving problems of an applied nature.

Scientific research is based on the use of the following concepts, which should not be confused:

**-Law-** has the form of universality as an objectively existing connection of processes or phenomena.

**-Fact-** an event or phenomenon that serves as the basis or confirmation of a hypothesis, this is the main element of the WRC, which must have reliability, novelty, accuracy and significance; established and proven on the basis of existing knowledge.

**-Principle-** the main provision of any theory used to substantiate the proposed approaches.

**-Problem-** a generalized set of formulated scientific questions as an area for future research, corresponds to the formulation and solution of major problems of a theoretical and applied nature that require the acquisition of new knowledge. It is this concept - the problem - that students confuse, referring to it the tasks and issues to be solved.

**-An object** research is a process or phenomenon that generates a problem situation and is chosen for study.

-**Item** research is what is within the boundaries of the object.

The object and subject of research are related to each other as general and particular: in the object, the part that serves as the subject of research is singled out. For example: the object is a city polyclinic, the subject is the organization of public services for the provision of quality medical care.

Master's thesis differs from the bachelor's final qualifying work by a thorough theoretical study of the problem, from a specialist's thesis by the scientific focus of the study.

### **Registration of WRC**

The text of the next chapter (section, paragraph) must be drawn up as soon as certain material has been accumulated on it, an analysis of theoretical and (or) practical information has been carried out, and calculations have been performed. The text may be preliminary, the chapter or section is designed in the form of the first edition. The written formulation of mental ideas helps the applicant to consistently achieve a solution to the problem, improve the structure of the work, and concretize the ways of further research.

Each chapter of the final qualification work should be completed with brief conclusions that summarize the results of individual stages of the study and on which the formulation of the main scientific results and practical recommendations of the scientific study as a whole is based.

Seal of the final qualifying work of the master. The WRC is printed on one side of a sheet of white A4 paper. Typing on a computer is carried out using a text editor Word. In this case, it is recommended to use fonts like Times New Roman with a size of 14 points.

The headings of the structural parts of the WRC "Contents", "Introduction", "Chapter 1", etc. are printed in capital letters in the middle of the lines, using a bold font with a size of 1-2 points larger than the font in the main text. Section headings are printed in lowercase letters with a paragraph indent in bold type with a size of 1-2 points more than in the main text. Paragraph headings are printed with a paragraph indent in lowercase letters (except for the first capital) in bold type, comparable to the font size of the main text. Do not put a dot at the end of headings of chapters, sections and paragraphs. If the heading consists of two or more sentences, they are separated by a dot(s). Each structural part of the WRC should start from a new sheet.

Numbering of pages, chapters, sections and paragraphs. Pages are numbered in Arabic numerals. The first page of the WRC is the title page, which is included in the general pagination of the study. On the title page, the page number is not put; on subsequent sheets, the number is put down in the center of the bottom of the sheet without a dot at the end. The numbering of chapters, sections, paragraphs,

figures, tables, formulas, equations is given in Arabic numerals without the "No" sign.

Sections are numbered within each chapter. The section number consists of the chapter number and the serial number of the section, separated by a dot, for example: "2.3" (the third section of the second chapter).

Paragraphs are numbered within each section. The paragraph number consists of the serial numbers of the chapter and section. For example: "§ 1.3.2" (second paragraph of the third section of the first chapter).

Design and numbering of figures, tables and formulas. Illustrations and tables should be placed in the WRC directly on the page with the text after the paragraph in which they are mentioned for the first time, or separately on the next page. They should be located so that they can be conveniently viewed without turning the WRC or turning clockwise. Illustrations and tables, which are located on separate sheets of the WRC, are included in the general page numbering. If their dimensions are larger than A4, they are placed on an A3 sheet and counted as one page.

Illustrations and tables are designated respectively by the words "figure" and "table" and are numbered sequentially within each chapter. All tables and illustrations should be referenced in the text of the WRC. The words "figure", "table" in the captions to the figure, table and in references to them are not abbreviated.

The number of the illustration (table) must consist of the number of the chapter and the ordinal number of the illustration (table), separated by a dot. For example: "figure 1.2" (the second figure of the first chapter). If only one illustration (table) is given in the chapters of the WRC, then they are numbered sequentially within the work as a whole, for example: "Figure 1", "Table 3".

When designing tables, you must follow the following rules:

- it is allowed to use in the table a font 1-2 points smaller than in the text of the work;
- do not include in the table the column "Number in order";
- a table with a large number of rows can be transferred to the next sheet.
- when transferring a part of the table to another sheet, its heading is indicated once above the first part, the word "Continuation" is written above the other parts on the left;
- headings of columns and lines should be written with a capital letter in the singular, and subheadings of a graph should be written with a lowercase letter if they make up one sentence with the heading, and with a capital letter if they have an independent meaning. It is allowed to number the columns with Arabic numerals if it is necessary to give references to them in the text of the WRC.



Formulas and equations in the WRC (if there are more than one) are numbered within the chapter. The formula (equation) number consists of the chapter number and the ordinal number of the formula (equation) in the chapter, separated by a dot. The numbers of formulas (equations) are written in parentheses at the right margin of the sheet at the level of the formula (equation), for example: "(3.1)" the first formula of the third chapter.

When drawing up formulas and equations, the following rules must be observed:

- formulas and equations should be separated from the text into a separate line. Above and below each formula and equation, one free line is left;
- If a formula or equation does not fit on one line, it must be wrapped after the equal sign (=) or after the plus (+), minus (-), multiplication (x), and division (:) signs. At the same time, the sign is repeated at the beginning of the next line;
- references to formulas in the text of the WRC are given in brackets;
- an explanation of the meanings of symbols and numerical coefficients included in the formula or equation should be given directly below the formula or equation in the same sequence as they are given in the formula (equation). The value of each symbol and numerical coefficient should be given on a new line. The first line of explanation begins with the words "where" without a colon.

#### **Guidelines for the content of the final qualification work**

**Title page** contains the full name of the educational institution; faculty and department where the work is performed, surname, name and patronymic of the author; job title; code and direction of specialty; academic degree, title, surname, name, patronymic of the supervisor and (or) consultant, city and year of registration of the work (Appendix 3). The title page of the WRC must contain the signatures of the supervisor and the Director of the Department on the admission of the work to the defense.

**Job Sample** for the final qualifying work (WRC) in Appendix 4.

**annotation** makes it possible to get an idea of the content of the work and determine the interest in it before reading its full text. Volume ranging from 500 to 1000 characters. The abstract should reveal the essence of the scientific problem considered in the work and include the main research conclusion. It should clearly and briefly outline the subject and objectives of the study, its methodology, novelty and main results. Experience shows that the most difficult thing for the author when preparing an abstract is to present briefly the results of his work. Therefore, one of the proven versions of the annotation is a brief repetition of the structure of the work in it, including the introduction, goals and objectives, methods, results, and conclusion.

**Content**, given at the beginning of the work, makes it possible to see the structure of the study. The content includes the headings of the structural parts of the WRC (names of all chapters and paragraphs) indicating the page number on which the beginning of the material of the corresponding part of the master's work is placed.

**Introduction.** The introduction to the WRC should contain: relevance of the topic; object of study; subject of study; purpose of the study; research objectives; research methods, reliability and validity of the results; the novelty of the provisions submitted for defense; personal contribution of the author; practical significance of the results; implementation of work results (if any); approbation of work (if any); publications (if any); structure and scope of work. In addition, the introduction may contain a brief assessment of the current state of the problem or task being solved, the connection of the work with other scientific areas in the economy. Thus, the introduction is a very important part of the WRC, since it not only guides the reader in further disclosure of the topic, but also contains all the necessary qualification characteristics.

The relevance of the topic is a mandatory requirement for any WRC. As applied to the final qualifying work, the concept of "relevance" has one peculiarity. WRC, as already mentioned, is a qualifying work, and how its author is able to choose a topic and how correctly he understands and evaluates this topic in terms of timeliness and social significance characterizes his scientific maturity and professional readiness.

Relevance coverage should be within 1 page. The undergraduate needs to show what the essence of the problem situation is. To do this, he needs to determine where the border between knowledge and ignorance about the subject of research passes. In this case, it will not be difficult for him to clearly and unambiguously define the scientific and practical problem, and, consequently, to formulate its essence. A specific feature of the problem is that in order to solve it, it is necessary to go beyond the old, already achieved knowledge.

To analyze the state of development of the chosen topic, a brief review of literary and other information sources is compiled, which should ultimately lead to the conclusion that this particular topic has not yet been disclosed (or has been disclosed only partially or in the wrong aspect) and therefore needs further development.

After formulating the problem and proving that that part of this problem, which is the topic of this final qualification work, has not yet received its development and coverage in the specialized literature, the purpose of the study is formulated, and the main tasks to be solved to achieve this goal are indicated. This is usually done in enumeration form (explore., describe., establish., reveal., etc.).

The formulation of these tasks should be done as carefully as possible, since the description of their solution should form the content of the chapters of the WRC. This is also important because the headings of such chapters are born precisely from the formulation of the research objectives.

A mandatory element of the introduction is the formulation of the object and subject of research. An object is a process or phenomenon that generates a problem situation and is chosen for study. The subject is something that is within the boundaries of the object and is subject to detailed study. The object and subject of research as categories of the scientific process are related to each other as general and particular. In the object, that part of it is singled out, which serves as the subject of research. It is on him that the main attention of the master is directed, it is the subject of research that determines the topic of the final qualifying work.

An obligatory element of the introduction of the WRC is also an indication of research methods that serve as a tool in obtaining factual material, being a necessary condition for achieving the goal set in such work.

It is also necessary to substantiate the reliability of the obtained scientific and practical results.

Novelty is one of the main requirements for the subject of the WRC. This means that it must contain a solution to a new scientific and practical problem or new developments that expand the existing boundaries of knowledge in this industry.

The introduction also indicates: practical value - new results of an applied nature that can be used in practice (methods, information technologies, software, etc.) and what it gives (economic effect, reduction of time and material costs, a comprehensive solution tasks, etc.); provisions submitted for defense, i.e. those new and significant results, the discussion of which allows us to evaluate the significance and quality of the work performed; approbation of the results - reflects participation in seminars and conferences (list), at which the main provisions of the work were discussed.

The main results of the study can be published in various journals, collections, etc., the number of publications is also indicated in the introduction of the WRC.

At the end of the introductory part, it is desirable to disclose the structure of the WRC, i.e. give a list of its structural elements and justify the sequence of their location. The length of the introduction is usually three to four pages.

**Main chapters.**In the chapters of the main part of the final qualification work, the methodology and technique of research are considered in detail and the results are summarized. The content of the chapters of the main part must exactly correspond to the theme of the WRC and fully disclose it. These chapters should

show the ability of the undergraduate to present the material concisely, logically and reasoned. The presentation and design of the material must comply with the requirements for papers sent for publication.

The main part of the WRC should contain data reflecting the purpose, objectives, essence, methodology and main results of the work performed:

1) substantiation of the choice of direction, purpose and objectives of the study, methods for solving problems and their comparative assessment, development of a general methodology for conducting work;

2) theoretical, analytical and experimental studies, including the determination of the nature and content of theoretical studies, methods of research and calculation, justification for the need for experimental work, the principles of operation of the developed objects, their characteristics, justification of the chosen metrological support for work, data on measurement objects, measured quantities and measuring instruments, their metrological characteristics, assessment of the correctness and efficiency of measuring instruments, assessment of measurement error, obtained experimental data;

3) analysis, generalization and evaluation of research results, including an assessment of the completeness of the solution of the tasks set, and proposals for further areas of work, an assessment of the reliability of the results obtained and their comparison with similar results of domestic and foreign works, justification for the need for additional research, negative results leading to the need to stop further research.

As a rule, the first section of the WRC includes a description and analysis of the object of study, as well as a systematic analysis of the source information - domestic and foreign literary sources, patents and copyright certificates for inventions, research and development work of the issuing Department or other departments of the university, enterprises, organizations or research institutes.

In the analytical review of the source information in chronological order, i.e. in order to develop knowledge on the issue under study, provide a brief description and analysis of all sources of scientific and technical information. If a master student is studying several issues, then each issue should be considered separately, introducing the appropriate number of subsections, paragraphs and subparagraphs into the WRC. After reviewing several works, it is necessary to critically compare the points of view of their authors, assess the state of the issue under study, express their opinion on the reliability and sufficiency of the literature and other data, on research methods, on doubtful, contradictory or erroneous statements and conclusions.

At the end of the analysis, brief conclusions are drawn, in which the state of the issue is fixed, a working hypothesis is given and the main directions in which further research should be carried out.

In conclusion, they formulate the purpose and objectives of the study to be carried out by the undergraduate.

In the second section, a research methodology is developed for theoretical, analytical and experimental solutions to the tasks. For example, for works of a research nature, it is recommended to develop and present a research methodology in the WRC according to the following scheme:

a) criteria for evaluating the effectiveness of the object under study (method, process, device, technology, system); b) parameters controlled during research; c) software, equipment, experimental facilities, devices, equipment, equipment; d) conditions and procedure for conducting experiments; e) the composition of the experiments; f) mathematical planning of experiments; g) processing of research results and their analysis.

In the third section, the research results are presented in the form of tables, mathematical dependencies, graphs, diagrams (bar, sector, tape), histograms, practical and theoretical distribution curves, nomograms, photographs, oscillograms, computer printouts and other materials. Currently, applied software tools are widely used, which can significantly reduce the time spent on processing, designing and graphical interpretation of research results.

All research results, including negative ones, should be described in the WRC with the statement of the researcher's own point of view. As a rule, the description of the results of the study is carried out in accordance with the composition and plan of experiments. For illustration, diagrams, drawings, graphs, diagrams, photographs are given.

The main task of the final section of the WRC is to substantiate the issues of economic or other efficiency of the results of the work and recommendations for their implementation. The calculation of the economic efficiency of using in practice the results of research work, development work or the implementation of recommendations developed as a result of research work is carried out in accordance with the methods for determining the economic efficiency of using new technology in the national economy. When comparing options for technology and organization of research, it is allowed to carry out integrated economic calculations or make decisions based on the recommendations of the literature or the graduating department.

In the case of the introduction of undergraduate developments into practice, their actual economic or other efficiency is determined according to the indicators of the current production or process (object). The calculation may also include an

analysis of the socio-economic and environmental effects from the introduction of the proposed developments (taking into account the costs of research and development). At the end of each chapter, the conclusions of the study are indicated. Conclusions should be formulated in three main directions:

- novelty;
- the possibilities and results of experimental (or broad, if the experiment has already been carried out) application;
- the degree of agreement between the theoretical results and the experimental data and the reasons for the discrepancy.

The conclusions for each chapter should be concise, with specific data on the results. General phrases that mean nothing words should be excluded from the wording.

**Conclusions and main results of the study.** The final qualifying work ends with the final part. This part of the WRC is determined by the logic of the research and is in the form of a synthesis of the scientific information accumulated in the main part, contains a consistent, logically coherent presentation of the results obtained and their relationship with the general goal and specific tasks set and formulated in the introduction. It is here that the so-called “inferential” knowledge is contained, which is new in relation to the original knowledge, and which is submitted for discussion and evaluation in the process of public defense of the WRC.

**Conclusions** should contain:

- 1) brief conclusions on the results of the studies performed or their individual stages, assessment of the completeness of the solutions to the tasks set, development of recommendations and initial data on the specific use of the results of research work, assessment of the technical, economic and environmental efficiency of using the developments of a master student in the national economy. If the definition of technical and economic efficiency is impossible, the national economic, scientific, social significance of the WRC should be indicated;
- 2) assessment of the scientific and technical level of the work performed in comparison with the best achievements in this field.

The content of the conclusion should not be replaced by a mechanical summary of the conclusions at the end of the chapters, representing a brief summary, but should contain something new, significant, which constitutes the final results of the study, which are often presented in the form of a number of numbered paragraphs. Their sequence is determined by the logic of the construction of scientific research. At the same time, not only its scientific novelty and theoretical significance, but also practical value, arising from the final results, is indicated.

The final part also assumes the presence of a generalized final assessment of the work done. At the same time, it is important to indicate what its main meaning is, what important side scientific results have been obtained, what new scientific tasks arise in connection with scientific research. The final part, drawn up according to such a plan, complements the description of the theoretical level of the WRC, and also shows the level of professional maturity and scientific qualifications of its author. The conclusion may also include practical suggestions, which increases the value of theoretical materials. In some cases, it becomes necessary to indicate the ways to continue the topic under study, the forms and methods of its further study, as well as specific tasks that future researchers will have to solve in the first place.

The volume of conclusions and main results of the study should not exceed two or three pages.

**List of used sources.**After the conclusion, it is customary to place a bibliographic list or a list of sources used. This list is one of the essential parts of the WRC and reflects the independent creative work of the undergraduate. Each literary source included in such a list should be reflected in the scientific work. If its author makes a reference to any borrowed facts or quotes the works of other authors, then he must indicate in the reference where the cited materials are taken from. Do not include in the list those works that are not referenced in the text of the thesis, and which have not actually been used. It is not recommended to include encyclopedias, reference books, popular science books and magazines, newspapers in this list.

**Applications.**The appendix to the WRC may contain reference and illustrative material used by the applicant and necessary for the integrity of the perception of the main content of the final work. The appendix includes materials related to the WRC, which are inappropriate to be included in the main part. In the form of applications, they can be text, tables, graphs, maps, photographs. The volume of annexes to the WRC should not exceed 25 pages. In each case, the composition of the applications is determined by the undergraduate in agreement with the supervisor.

**Graphic material.**The graphic part of the work for submission to the members of the SAC is drawn up in the form of handouts on sheets of A4 format. Graphic material is also prepared for the report in the form of a presentation in Microsoft Office Power Point. Slides should ensure the perception of illustrations and explanations for them at a distance of 4-5 meters. When preparing a presentation, the following rules should be followed.

1) It is recommended to prepare as many slides as needed to cover all the main issues within the allotted time, but no less than in the explanatory note. It is allowed to include additional material in slides, for example, photographs, videos.

2) It is not recommended to overload slides with formulas and words; you need to find the optimal visual form. On average, the saturation of one slide with information should be equivalent to 7-15 lines of text.

3) When designing the graphic part, it should be borne in mind that during the defense of the WRC, the image is projected onto the screen from a computer monitor. Therefore, it is necessary that the graphic and text information of the sheets be clearly visible and readable on the monitor screen.

4) Thinking over which illustrations to include in the report, the undergraduate should consider all the details of the experiment, the generalization of which these illustrations are, as well as the reliability, reliability and reproducibility of the results that they generalize.

5) Each slide should have a title-title, for example, "Problem Statement", "System Block Diagram", etc. The first slide usually gives the title of the topic and the name of the author, as well as the problems, purpose and objectives of the study, the last one lists the main results and conclusions.

6) When designing slides, the style of the entire presentation should be observed. The graphic solution of the presentation should be concise and effective, but not pretentious. The type, size and color of the font must be correctly selected. When preparing presentations, you should use such Power Point features as visualization of technological processes and technical objects, gradual introduction and emphasis of material. Animation effects should not be overused. All materials, both graphic and explanatory notes, must be made in accordance with applicable standards.



