

**Federal State Autonomous Educational Institution of Higher Education
“Peoples' Friendship University of Russia”**

Faculty of Economics

**PROGRAM
of
SCIENTIFIC RESEARCH**

Recommended for the specialty: **38.06.01. Economy**
Program profile: **08.00.14. World Economy**

Qualification (degree) graduate: **Researcher. Lecturer - researcher**

1. Aims of scientific research:

The research work of the post-graduate student is the most important component of the third level of higher education. Block 3 “Scientific Research” includes the performance of scientific research and the preparation of scientific and qualification work (dissertation) for the degree of candidate of science. After selecting the focus of the program, the set of relevant disciplines (modules) and practices becomes compulsory for the post-graduate student to learn.

The purpose of scientific research is the formation of the graduate student’s qualification as a professional scientist, the formation and improvement of the skills of independent scientific research work, including the formulation and correction of the scientific problem, the work with various sources of scientific and technical information, the conduct of original scientific research independently and as part of a scientific team, scientific research in the process of free discussion in a professional environment, presentation and preparation the publication of the results of scientific research work, as well as the preparation of a thesis for the degree of candidate of sciences in the selected profile.

Scientific research of the graduate student should:

- to correspond to the main problems of the profile of the educational program, according to which the scientific and qualification work (the thesis) is being prepared;
- to be relevant, contain scientific novelty and practical significance;
- to be based on modern theoretical, methodical and economic achievements of domestic and foreign science and practice;
- to use modern methods of scientific research;
- to be based on modern methods of processing and interpreting data using computer technology;
- to contain the theoretical (methodological, practical) sections, agreed with the scientific provisions, defended in the thesis for the dissertation of candidate of science.

The content of the research work is determined in accordance with the chosen profile and the topic of the candidate's thesis.

2. The place of scientific research in the structure of the ES HE:

Scientific research refers to the block 3 “Scientific Research”, includes research activities and the preparation of scientific qualification work (dissertation) for the degree of candidate of science.

Scientific research is the main activity of a post-graduate student and is conducted on a regular basis throughout the entire period of study in doctorate program. Scientific research is based on knowledge gained as a result of mastering the basic educational programs of higher education (the level of magistracy, specialty), as well as on the knowledge gained as a result of mastering the disciplines of the main and variable parts, the passage of scientific research and pedagogical practices in postgraduate studies.

Scientific research is a prerequisite for the postgraduate to pass the state final attestation.

3. The process of studying the discipline is aimed at the formation of the following competencies:

As a result of the scientific research, the post-graduate student is mastering the following competences:

1. Universal Competences

- the ability to critically analyze and evaluate current scientific achievements, generate new ideas for solving research and practical problems, those of in the interdisciplinary areas (UC-1);
- the readiness to use modern methods and technologies of scientific communication in Russian and foreign languages (UC-4);

- the ability to follow ethical norms and rules in professional activities (UC-5);
- the ability to plan and solve problems of their own professional and personal development (UC-6);

2. General Professional Competences

- the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies (GPC-1);
- the readiness to organize the work of the research team in the scientific field corresponding to the specialty (GPC-2);
- the readiness for teaching activities on educational programs of higher education level (GPC-3);

3. Professional Competences

- the ability to study modern problems of the world economy, the patterns of internationalization and globalization of economic relations, mechanisms for their regulation at the national, regional and global levels (PC-5.1);
- the skills in the development and implementation of theory and methodology in the areas of internationalization and globalization of economic relations, as well as mechanisms for their regulation at the national, regional and global levels (PC-5.2);
- the ability to develop scientific ideas about the production, trade, monetary, social, scientific, technical, environmental and other aspects of the world economic processes and subjects of these processes - transnational corporations, state structures, international governmental and non-governmental organizations that ensure the functioning of the world economy as a whole system (PC-5.3).

As a result of the scientific research the graduate student should:

to know:

- features and principles of organization of research work;
- works of domestic and foreign authors on the problems of research;
- methods of scientific research;
- stages of conducting scientific research in the field of economics and a standard structure of the results of scientific research;

to be able to:

- justify the choice of the topic of scientific research, formulate goals and objectives, the object and subject of research, determine the structure of scientific research and methods for its implementation;
- independently plan and conduct scientific research, analyze the obtained results and draw appropriate conclusions;
- prepare scientific reports, scientific qualification work (dissertation), scientific and technical documentation, a thesis for the degree of candidate of economic sciences in accordance with the state standards of Russian Federation and PFUR standards.

to have:

- the skills of independent research activities;
- the skills of research work in research teams;
- the skills of scientific communication.

4. Place and time of conducting the scientific research

The total workload of Block 3 “Scientific Research” is 90 credits (3240 hours). Scientific research is conducted during the entire period of study in doctorate program, the workload for the first year of study is 1080 hours or 30 credits, for the second year of study - 1080 hours or 30 credits, for the third year of study - 1080 hours or 30 credits.

The distribution of the workload of scientific research on sections (topics), semesters, types of educational work and forms of control.

Types of educational work	Hours, total	Semesters					
		1	2	3	4	5	6
Classroom activities (total)							
Independent work (total)	3564	648	432	648	432	648	756
Total workload:							
academic hours	3564	648	432	648	432	648	756
credits	99	18	12	18	12	18	21

Required minimum content of scientific research

№	Required minimum content of scientific research	Hours, total
1	Definition of the topic of the research. Collection and abstracting of scientific literature, allowing to determine goals and objectives, object, subject and approximate plan for the performance of scientific work.	300
2	Choice and practical mastering of scientific research methods on the topic of scientific work. Theoretical analysis of the selected topic of scientific research. Determination of the composition of the practical (experimental) part of the study. Development of the final concept of scientific research (dissertation).	1500
3	Execution of the experimental part of the scientific work. Statistical processing and analysis of practical (experimental) data on the subject of scientific research.	1200
4	Development of a scientific report on the main results of the thesis (dissertation) for the degree of candidate of economic sciences and of the text of the dissertation and author's abstract on dissertation.	564
Total:		3564

5. Forms and content of scientific research:

- study of reference and bibliographic systems, methods of information retrieval.
- acquisition of skills of the work with bibliographic directories, compilation of scientific and bibliographic lists, use of bibliographic description in scientific works;
 - work with electronic databases of domestic and foreign library collections;
 - work with the theoretical base of the research in accordance with the selected topic of the thesis for the degree of candidate of economic sciences (compiling a review of Russian and foreign theoretical and empirical researches on the chosen subject, drawing up a program and plan for independent theoretical research, setting and formulating the problems of theoretical research, object and subject of theoretical research, choice of methods of theoretical research, development and reasoned the substantiation of the theoretical part of scientific research);
 - work with the empirical base of the research in accordance with the chosen topic of the thesis for obtaining the scientific degree of candidate of economic sciences (drawing up a program and an empirical research plan, setting and formulating the tasks of empirical research, determining the object of empirical research, choosing the methodology of empirical research, studying methods of collecting and analyzing empirical data);
 - conducting statistical and sociological studies related to the theme of graduate qualification work of the post-graduate student;
 - mastering the methods of questioning and interviewing (compiling a questionnaire, interviewing, analyzing and summarizing the results);

- mastering the techniques of observation, experimentation and modeling;
- consideration of a range of issues on the topic of the thesis;
- preparation of arguments for scientific discussion, including public discussion;
- generalization and preparation of the research results of the post-graduate student for the continuation of scientific research within the system of postgraduate education.

№	Name	Content	Forms of current control
1	<p>Definition of the topic of the research.</p> <p>Collection and abstracting of scientific literature, allowing to determine the goals, objectives, object and subject of the research.</p>	<p>The goals, tasks, and prospects for research are formulated.</p> <p>The urgency and scientific novelty of the work is determined.</p> <p>Together with the scientific consultant, the theme of scientific research is formulated and the structure of the work is determined.</p>	<p>Discussion at the meeting of the department, getting the recommendation to approve the topic of dissertation research at the meeting of the department and at a meeting of the Academic Council of the Faculty of Economics.</p>
2	<p>Theoretical part of the research.</p> <p>Work with sources of scientific and economic information on the subject of scientific research.</p>	<p>The search and analysis of scientific and periodical literature on the subject of scientific research is carried out.</p> <p>The theoretical part of the research is developed, including a review of the existing scientific literature, theories, concepts and approaches to analyzing the researched questions, the study of world experience, the formulation of independent conclusions of a theoretical nature.</p>	<p>Development of Chapter 1 and Chapter 2 of the dissertation for the degree of candidate of economic sciences, approved by the scientific consultant.</p> <p>Scientific report at the meeting of the department at the end of the second year of post-graduate study.</p> <p>Preparation and presentation of reports at seminars, conferences, symposiums, scientific schools, publications in the final collections of articles as a result of scientific conferences.</p> <p>Publish at least two scientific articles in scientific journals on the list of HAC by the end of the second year of study.</p>
3	<p>Selection and practical mastering of the research methods on the topic of scientific research.</p> <p>Execution of the experimental part of the scientific research.</p> <p>Statistical processing and analysis of experimental data.</p>	<p>Construction of a structural-logical scheme of research with the selection of optimal research methods, determined by the research topic and material and technical support. The post-graduate student performs the experimental part of the work and carries out the generalization and systematization of the results of the conducted studies using modern computer technology,</p>	<p>Development of Chapter 3 and conclusions of the thesis for the degree of candidate of economic sciences, approved by the scientific consultant.</p> <p>Report at the seminars of the scientific group or at the meeting of the department.</p> <p>Preparation and presentation of reports at</p>

		performs mathematical or statistical processing of obtained data, develops practical conclusions and recommendations on the topics of scientific research.	seminars, conferences, symposiums, scientific schools, publications in the collections of articles of the scientific conferences. Publication of at least one scientific article in scientific journals on the list of HAC during the third year of study.
4	Approbation of the results of scientific research at scientific seminars, conferences, symposiums, schools of young scientists, at the meetings of the department.	Preparation of abstracts and text of reports, illustrative material. Speech with oral and poster presentations. Preparation and publication of the texts of articles in the collections of scientific conferences.	Publication of the texts of articles in collections of scientific conferences (related to paragraphs 2 and 3 of this table).
5	Preparation of publications on the results of scientific research in scientific journals, including those recommended by the Higher Attestation Commission of Russia for the publication of the results of dissertations	Preparation of draft texts of articles, discussion of draft articles with the scientific consultant, preparation of articles in accordance with the editorial rules of the selected scientific journal. Publication of the final texts of scientific articles. Preparation of accompanying documents and sending materials to the editorial office. Work with reviewers. Follow-up the scientific discussion.	Publications in scientific journals on the list of HAC (related to paragraphs 2 and 3 of this table). Publication in scientific journals of international databases Web of Science and Scopus is not an obligatory criterion for evaluating the results of scientific research, but in the case of availability, it is the advantage of a post-graduate student.

6. Educational, methodical and information support of the discipline:

Internet sites:

1. <http://www.garant.ru/> - informational system on Russian legislation "Garant"
2. <http://www.consultant.ru/> - informational system on Russian legislation "Consultant"
3. <http://minobarnauk.rf/> - Ministry of Education and Science of the Russian Federation
4. <http://vak.ed.gov.ru/> - Higher Attestation Commission
5. <http://www.edscience.ru/index.php/jour> the journal "Education and Science"
6. <http://www.vovr.ru/> journal "Higher education in Russia"
7. <http://www.russia.edu.ru/edu/> Education in Russia
8. <http://www.rosforce.ru/obrazovanie-rossii/#club> - discussion club of the Ministry of Education and Science
9. <http://www.edu.ru/> - Russian education
10. <http://ria.ru/education/> - RIA Novosti, section "Education"
11. <http://www.pedlib.ru/>

Databases:

12. The site of the scientific library of RUDN - access mode: <http://lib.rudn.ru/> - from stationary computers of the PFUR
13. Bulletin of the PFUR - access mode: <http://www.elibrary.ru/defaultx.asp>
14. Full-text collection of Russian scientific journals. eLibrary.ru - access mode: <http://elibrary.ru/defaultx.asp?>

15. On-line access to the journals. Information database on all branches of science and electronic delivery of documents. SwetsWise. - access mode: <https://www.swetswise.com>
 16. <http://www.pedlib.ru/> - Pedagogical Library
 17. <https://cyberleninka.ru/> - Scientific Electronic Library Cyberleninka
 18. <http://diss.rsl.ru/> - Electronic Library of RSL: Library of Dissertations

7. Material and technical support of scientific research practice

Auditory fund, computer equipment and multimedia facilities of the Economics Department of the PFUR, workstations equipped with computer equipment and electronic databases of the Scientific Library of PFUR.

№	Name of special * rooms and rooms for independent work	Equipment of special rooms and premises for independent work	List of licensed software
1.	Reading room of the RUDN Scientific Library, Moscow, Miklukho-Maclay st., 6.	workstation: system unit P4 C2D / 2550 MHz / 2048 MB / 250 GB / DVD ± RW / LCD monitor 17 "	MS Windows 10 64bit Microsoft Office 2016
2.	Computer auditorium №17, Moscow, Miklukho-Maclay st., 6.	board; stationary personal computer with Microsoft Office package; multimedia projector; the use of portable equipment is allowed - a laptop and a projector; screen (stationary or portable floor).	MS Windows 10 64bit Microsoft Office 2016
3.	Computer auditorium number №19, Moscow, Miklukho-Maclay st., 6.	board; screen (stationary or portable floor). System unit Iru Intel i7 3160 MHz / 16 GB / 600 GB / DVD / audio - 21 pcs Monitor 23 "Acer G236HL - 21 pcs. Casio XJ-V100W multimedia projector Screen motorized Digis Electra 200 * 150 Dsem-4303	MS Windows 10 64bit Microsoft Office 2016

8. Forms of attestation (based on the results of scientific research)

Form of knowledge assessment

Final attestation in scientific research is carried out in the form of a differentiated offset. Differentiated credit (credit with an assessment) based on the results of scientific research is set on the basis of the provision of the thesis text, test and presentation of a scientific report at a department meeting, and such additional criteria as: publication of at least one article based on the results of participation in the conference, at least three articles in peer-reviewed journals recommended by the Higher Attestation Commission, the provision of a report on practice in the prescribed form, the use of materials and research results in teaching disciplines, participation in research projects and economic and contractual topics.

Criteria of knowledge assessment

Period of study	Scientific research work	Participation in scientific and practical conferences	Publications
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Attestation for the 1st semester	Approval of the topic of research work at Academic Council of the Faculty of Economics. Adoption of an individual curriculum. Determination of relevance, scientific and applied importance of the theme of scientific research work. The scientific novelty of the dissertation and the distinctive features of scientific research work in comparison with similar works performed by other authors.	Participation in the scientific conference	Topic and the plan of research, list of literature
Attestation for the 2nd semester	Clear formulation of the purpose and objectives of the study. The tasks set in the research work must be specific, realistically feasible, proceed from the current state of the issue and proposals for further improvement of further provisions. Definition of the object and subject of research, the choice of basic techniques. It is indicated, on what base it is supposed to conduct research on the topic as a whole and on its separate sections. Review of literature (at least 100 titles). Compilation of a program of theoretical and experimental research.	Participation in the scientific conference	At least 1 publication on the topic of research work.
Attestation for the 3rd semester	Methods of research. The lists of techniques and methods that allow to reveal the variety of factors influencing the investigated phenomena. Deciphering of the procedure for obtaining the necessary materials - collecting digital statistics, studying documentation, monitoring, questioning, experiment, etc. The technique of carrying out the experiment is indicated - the scheme of the planned experiments, the expected results. The main provisions to be defended. Theoretical, laboratory, experimental studies in the volume of 50%.	Participation in the scientific conferences for approbation of the results of scientific research	At least 2 publications on the topic of research work in peer-reviewed journals.
Attestation for the 4th semester	Report on the structure of research work. Indication of chapters and paragraphs, disclosure of their content. Theoretical, practical, experimental studies in the volume of 75%.	Participation in the scientific conferences for approbation of the results of scientific research	At least 3 publications on the topic of research work in peer-reviewed journals.
Attestation for the 5th semester	Theoretical, laboratory, experimental studies in a volume of 90% (draft version). The manuscript of scientific research should be presented to the scientific consultant.	Participation in the scientific conferences for approbation of the results of scientific research	At least 4 publications on the topic of research work in peer-reviewed journals.
Attestation for the 6th semester, examination of dissertation research	Theoretical, laboratory, experimental studies in the volume of 100% (draft version). The manuscript of the research work should be submitted for discussion to the responsible department. Based on the results of the discussion, the department's conclusion is prepared in the form of an extract from the protocol of the meeting of the department.	Participation in the scientific conferences for approbation of the results of scientific research	At least 5 publications on the topic of research work in peer-reviewed journals.

To admit scientific qualification work to defense in dissertation council, not less than 3 publications in the journals in the list of HAC are required, preferably (not mandatory) for post-

graduate student to have at least 1 publication in the journals of the Web of Science and / or Scopus databases.

9. The fund of assessment tool for attestation of post graduate students in scientific research

For assessing the knowledge and for the attestation of post-graduate students, the following *credit system* is used.

Points of rating system	Traditional grades in Russia	Points	Grades	Grades of ECTS
86 - 100	5	95 - 100	5+	A
		86 - 94	5	B
69 - 85	4	69 - 85	4	C
51 - 68	3	61 - 68	3+	D
		51 - 60	3	E
0 - 50	2	31 - 50	2+	FX
		0 - 30	2	F

Criteria for assessing knowledge, skills, competencies of post-graduate student as the result of scientific research

№	Grade	The requirements for the level of competence formation
1	Unsatisfactory (not credited)	Does not have the necessary notions about the material being tested. The draft version of the dissertation is not provided.
2	Satisfactory or Unsatisfactory (credited or not credited) (at the discretion of the scientific consultant)	Know at the level of orientation, representations. Post-graduate student know the basic signs or terms of the studied element content, assigning them to a particular science, industry, or objects, finds them in the text, images or patterns and knows what sources should be treated for a more detailed assimilate. The draft version of the dissertation is not provided in full, or there are substantial remarks to the dissertation not suggesting the defense of the dissertation.
3	Satisfactory (credited)	Know and be able at the reproductive level. Post-graduate student knows the studied content element reproductively: arbitrarily reproduces his knowledge verbally, in writing or in demonstrated actions. The draft version of the dissertation is provided in full, but there are substantial remarks to the dissertation.
4	Good (credited)	To know, be able, to own at the analytical level. Knowing at the reproductive level, to point out the features and interrelations of the studied objects, their dignity, limitations, history and development prospects and features for different objects of assimilation. The draft version of the dissertation is provided in full, the post-graduate student has passed the defense of dissertation at the department, but there are remarks to the dissertation and it is necessary to re-defend or eliminate remarks in the working order before the recommendation of the department for defense in the dissertation council.
5	Excellent (credited)	To know, be able, to use at the system level. The subject knows the teachings learned element content systematically,

		<p>arbitrarily and convincingly reproduces their knowledge orally, in writing or in the demonstrated actions, taking into account and specifying the relationships and dependencies between this element and the other elements of the content of the research, its importance in the maintenance of research. The draft version of the dissertation was provided in full, the graduate student successfully passed the thesis defense at the department and was recommended to defend the thesis in the dissertation council.</p>
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№ p/p	Matrix of supervised competencies:	Name of assessment tools
1.	UC-1	<p>The choice of the topic of the dissertation. Review and peer review of scientific literature. Historical, theoretical and comparative analysis in the field of the problem under study. Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. The use of research results in teaching disciplines. Speech at scientific conferences. Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS.</p>
2.	UC-4	<p>Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS (in Russian or English, or other foreign languages). Submission of applications for research grants, including those financed from foreign sources. Participation in a research project and / or an economic-contractual topic on research topics and the world economy, including those carried out jointly with foreign scientists.</p>
3.	UC-5	<p>Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS.</p>
4.	UC-6	<p>Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS. Submission of applications for research grants. Participation in a research project and / or an economic-contractual topic on research topics and the world economy</p>
5.	GPC-1	<p>The choice of the topic of the dissertation. Review and peer review of scientific literature. Historical, theoretical and comparative analysis in the field of the problem under study. Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. Speech at scientific conferences. Publication in print, online edition of scientific articles RSCI, HAC,</p>

		SCOPUS / WOS.
6.	GPC-2	Submission of applications for research grants, including those financed from foreign sources. Participation in a research project and / or an economic-contractual topic on research topics and the world economy, including those carried out jointly with foreign scientists.
7.	GPC-3	The use of research results in teaching disciplines.
8.	PC-5.1	The choice of the topic of the dissertation. Review and peer review of scientific literature. Historical, theoretical and comparative analysis in the field of the problem under study. Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. Speech at scientific conferences. Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS.
9.	PC-5.2	The choice of the topic of the dissertation. Review and peer review of scientific literature. Historical, theoretical and comparative analysis in the field of the problem under study. Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. Speech at scientific conferences. Publication in print, online edition of scientific articles RSCI, HAC, SCOPUS / WOS.
10.	PC-5.3	The choice of the topic of the dissertation. Review and peer review of scientific literature. Historical, theoretical and comparative analysis in the field of the problem under study. Presentation of the report in the form of the corresponding chapter of the thesis. Development of the introduction and conclusion of the dissertation. Speech at scientific conferences. Publication in print, online publication of scientific articles RSCI, HAC, SCOPUS / WOS.

The types of work (assignments) in scientific research, points, assessment criteria and formed competencies in the performance of each of the types of work during the internship are set out in the Passport of the Assessment Means Fund. The fund of appraisal means is placed in the TUIS system.

The program is compiled in accordance with the requirements of the ES HE PFUR / FSES.

Developers:

PhD, associate professor of the International economic relations department



Nataliya V. Dyuzheva

Supervisor of the program:

doctor of science, professor of the International economic relations department



Inna V. Andronova

Head of Department
of International economic relations
doctor of science, professor

A handwritten signature in blue ink, consisting of a large, stylized initial 'I' followed by a horizontal line and a short vertical stroke at the end.

Inna V. Andronova