Federal State Autonomous Educational Institution of Higher Education "Peoples' Friendship University of Russia"

Faculty of Economics
Industry Management Center

PROGRAM
SCIENTIFIC RESEARCH

It is recommended for the direction of training

highly qualified personnel (graduate school)

For directions 38.06.01 Economics

Program focus (profile) 08.00.05 Innovation Management

Graduate studies: full-time

Graduate Qualification : Researcher. Research teacher

Moscow 2019

1. Research objectives

The research work of a graduate student is an essential component of the third level of higher education. Block 3 "Scientific research" includes the implementation of research work and the preparation of scientific and qualification work (dissertation) for the degree of candidate of sciences. After the students choose the direction of the program, the set of relevant disciplines (modules) and practices becomes mandatory for the learners to master. The purpose of scientific research is the establishment of the worldview of a graduate student as a professional scientist, the formation and improvement of independent research work skills, including the formulation and adjustment of a scientific problem, working with various sources of scientific and technical information, conducting original scientific research independently and as part of a scientific team, discussing the results scientific research in the process of free discussion in a professional environment, presentation and preparation a taste for publishing the results of research work, as well as preparing a dissertation for the degree of candidate of sciences in the chosen profile. Scientific research of a graduate student should: - Correspond to the main problems of the profile of the educational program, according to which the preparation of scientific and qualification work (dissertation) is ongoing; - Be relevant, contain scientific novelty and practical significance; - Based on modern theoretical, methodological and economic achievements of domestic and foreign science and practice; - Use modern research methods; - Based on modern methods of processing and interpreting data using computer technology; - Contain theoretical (methodological, practical) sections, consistent with the scientific provisions defended in the Ph.D. dissertation. The content of the research work is determined in accordance with the chosen profile and theme of the dissertation.

2. The place of research practice in the structure of PLO

Scientific research belongs to 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 the graduate student and is carried out on an ongoing regular basis throughout the entire term of studies in graduate school. Scientific research is based on the knowledge gained as a result of mastering the basic educational programs of higher education (master's degree, specialty), as well as on the knowledge gained as a result of mastering the disciplines of the main and variative parts, passing research and teaching practices when studying at graduate school. Scientific research is precedent for graduate student to pass the state final certification.

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

As a result of scientific research, the following competencies should be formed at the graduate student:

- the ability to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems, including in interdisciplinary fields (UK-1);
- Willingness to participate in the work of Russian and international research teams to solve scientific and scientific-educational problems (UK-3);
- readiness to use modern methods and technologies of scientific communication in the state and foreign languages (UK-4);

- the ability to plan and solve problems of their own professional and personal development (UK-6);
- the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies (OPK-1);
- Willingness to organize the work of the research team in the scientific field corresponding to the direction of training (OPK-2);
- readiness for teaching activities in educational programs of higher education (OPK-3);
- the ability to identify directions and assess the effectiveness of innovative development of economic systems, scientific, technical and organizational updating of socio-economic systems, as well as the application of methods and tools for assessing the results of innovative activities (PK-7.1);
- skills of analysis of information and organizational support; the application of methods and tools for substantiating the analysis and resolution of problems of innovative development of the national economy, management of the main parameters of innovative processes in the modern economy (PK-7.2);
- the ability to develop scientific ideas about the economic processes of formation and organization of the effective functioning of the innovation sphere of the national economy, including the totality of innovations created and mastered by regions, industries and enterprises as a result of innovation; the mechanism of its investment development (PK-7.3).

As a result of scientific research, a graduate student must:

know:

- Features and principles of the organization of research work;
- works of domestic and foreign authors on research issues;
- research methods;
- stages of scientific research in the field of economics and a typical structure of research results;

be able to:

- substantiate 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 research, analyze the results and draw the appropriate conclusions;
- to issue scientific reports, scientific qualification work, scientific and technical documentation, a dissertation for the degree of candidate of economic sciences in accordance with the all-Russian standards and standards of the RUDN University.

own:

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

4. Scope and place of research:

The total complexity of block 3 " Scientific research" is 99 credits (3564 hours).

The distribution of the volume of scientific research by sections (themes), semesters, types of academic work and forms of control.

Name	Total hours	Semesters					
		1 year of study		2 year learning		3 year learning	
		one	2	3	four	5	6
Classroom activities (total)							
Independent work (total)	3 564	648	432	648	432	648	756
Total labor input: Ak. Hours	3 564	648	432	648	432	648	756
ZE	99	18	12	18	12	18	21

Mandatory content of full-time studies

No. p / p	Mandatory minimum research content	Total hours
one	Identification of research topics. Collection and abstracting of scientific literature, which allows to determine the goals and objectives, object, subject and approximate plan for the implementation of scientific work.	1080
2	The selection and practical development of research methods on the topic of scientific work. Theoretical analysis on the chosen topic of scientific research. Determination of the composition of the practical (experimental) part of the study. Development of the final concept of scientific research.	1080
3	The implementation of the experimental part of the scientific work. Statistical processing and analysis of practical (experimental) data on the subject of scientific research. Making a scientific report on the main results of the NKR, the text of the dissertation for the degree of candidate of economic sciences and abstract on the dissertation	1404
	Total	3 564

5 . Forms and content of scientific research

- the study of reference and bibliographic systems, information retrieval methods.
- the acquisition of skills to work with bibliographic directories, compiling scientific bibliographic lists, using bibliographic descriptions in scientific papers.
- work with electronic databases of domestic and foreign library collections;
- work with the theoretical basis of the research in accordance with the chosen topic of the dissertation for the degree of candidate of economic sciences (compiling a review of Russian and foreign theoretical and empirical research on the selected topic, drawing up a program and plan for independent theoretical research, setting and formulation of theoretical research tasks, definition object and subject of theoretical research, the choice of methods of theoretical research, development and reasoned e justification of the theoretical part of scientific research);
- work with the empirical basis of the research in accordance with the chosen topic of the dissertation for the degree of candidate of economic sciences (compiling a program and plan of empirical research, setting and formulating tasks of empirical research, determining the object of empirical research, choosing the methods of empirical research, studying methods of collecting and analyzing empirical data);

- development of observation, experiment and modeling techniques;
- consideration of a range of questions on the topic of the dissertation;
- preparation of arguments for a scientific discussion, including public;
- generalization and preparation of the results of research activities of a graduate student to continue research in the framework of the postgraduate education system.

No. p / p	Name	Content	Current Control Forms
one	Identification of research topics. Collection and abstracting of scientific literature, which allows to determine goals, objectives, object and subject of research.	The goals, objectives, research prospects are formulated. The relevance and scientific novelty of the work are determined. Together with the supervisor, the topic of scientific research is formulated and the structure of work is determined.	Discussion at a meeting of the department and recommendation for the approval of the topic of dissertation research at a meeting of the department and at a meeting of the Academic Council of the Faculty of Economics.
2	The theoretical part of the study. Work with sources of scientific and economic information on the subject of scientific research. Search and analysis of scientific and periodical literature on the subject of scientific research is carried out.	The theoretical part of the study is being developed, including a review of the existing scientific literature, theories, concepts and approaches to the analysis of the questions studied by graduate students, the study of world experience, and the formulation of independent conclusions of a theoretical nature.	Development of Chapter 1 and Chapter 2 of the dissertation for the degree of candidate of economic sciences, approved by the supervisor. Scientific report at the department meeting at the end of the second year of postgraduate study
3	The selection and practical development of research methods on the topic of scientific research. The implementation of the experimental part of scientific research. Statistical processing and analysis of experimental data.	Construction of a structural-logical research scheme with the selection of optimal research methods, determined by the research topic and material and technical support. The graduate student performs the experimental part of the work and generalizes and systematizes the results of the research using modern computer technology, performs mathematical or	Development of Chapter 3, conclusions (conclusions) of the dissertation for the degree of candidate of economic sciences, approved by the supervisor. Report at scientific group seminars or at a department meeting.

		statistical processing of the data, develops practical conclusions and recommendations on the subject of scientific research.	
four	Testing the results of scientific research at a meeting of the department.	Preparation of abstracts and text of reports, illustrative material. Speech with oral and poster presentations. Elimination of comments on the candidate dissertation, admission to the state final certification	Development of an abstract of a dissertation for the degree of candidate of economic sciences. Pre-defense of the dissertation at the department. Defense of scientific qualification work within the framework of state final certification
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 dissertation materials	Preparation of working texts of articles, discussion with the supervisor, paper design in accordance with the rules of the editorial office of the selected scientific journal. Publication of the final texts of scientific articles. Preparation of supporting documents and sending materials to the publisher. Work with reviewers. Follow-up scientific discussion.	Publications in scientific journals according to the list of Higher Attestation Commission. Publication in international journals of WoS and Scopus databases in scientific journals is not a mandatory criterion for evaluating research results, but if available, is an advantage of a graduate student.

6 . Educational and methodological support of scientific research

a) main literature:

1. Alekseev, A. A. Innovation management: a textbook and workshop for undergraduate and graduate programs / A. A. Alekseev. - M.: Yurayt Publishing House, 2017 .-- 247 p.
2. Avsyannikov N.M. Innovation Management: Textbook / N.M. Avsyannikov. - 2nd ed., Rev. and add. - M.: Publishing House of the RUDN University, 2011 .-- 189 p.
3. Antropov M.S. Knowledge, creativity and innovation management in multinational organizations [Text / electronic resource]: Textbook / M.S. Antropov. - M.: Publishing House of the RUDN University, 2008 .-- 190 p. Bogomolova, A.V. Innovation Management: a training manual / A.V. Bogomolov; Ministry of Education and Science of the Russian Federation, Tomsk State University of Control Systems and Radioelectronics (TUSUR). - 2nd ed., Ext. - Tomsk: El Content, 2015 .-- 144 p. : schemes. - Bibliography:

p. 134-135. - ISBN 978-5-4332-0243-6; The same [Electronic resource]. - URL: http://biblioclub.ru/index.php?page=book&id=480596 (01/21/2018).
4. Baldin, K. V. Risk management in the innovation and investment activity of an enterprise: textbook. allowance / K.V. Baldin, I.I. Perederayev, R.S. Golov. - 2nd ed. - M .: Dashkov and K`, 2012 .-- 418 p.
5. Barancheev V.P., Maslennikova N.P., Mishin V.M. Innovation management. - M.: Yurait-Publishing House, 2012.
6. Innovation and project management. Tutorial. - Rostov-on-Don: Publishing House of SFU, 2014 .-- 181 p.
7. Pervushin V. Practice of managing innovative projects / Publisher: RANEPA, 2016.
8. Oslo Guide. Guidelines for Collecting and Analyzing Innovation Data / Third Edition. Joint publication of the OECD and Eurostat. Translation into Russian, second edition revised. Moscow, 2010. OEDS.
9. Management of the innovation system of the organization: study guide / E.N. Vetrova, N.N. Tikhomirov. - SPb .: Publishing house of SPbGEU, 2017 .-- 78 p.
10. Fathutdinov R.A. Innovation Management. - St. Petersburg: Peter, 2012 .-- 400 p.
11. Shamina L.K. Methodology and methodology for managing innovative processes in an industrial enterprise: Monograph. - St. Petersburg: Institute of Business and Law, 2011. - 190 p.

b) additional literature:

1. Adizes And How To Overcome Management Crises. SPb .: Publishing House of the Stockholm School of Economics. 2006. - 285 p.
2. Vern Harnish. Business Development: Tools for Profitable Growth / April 8, 2016 Mann, Ivanov and Ferber.
3. GOST R 56645.3-2015. Design management systems. Innovation Management Guide [Text] = Design management systems. Guide to managing innovation: national standard of the Russian Federation: official publication: introduced for the first time: introduction date 2016-06-01 / Prepared by FSUE "Scientific-researched. Institute of Standardization and Unification ", JSC" Scientific-Research Center for Control and Diagnostics of Tech. with the system. " - Moscow: Standartinform, 2016.
4. Danshina V.V. The concept of forming an innovative strategy for the development of socially responsible business // http: //www.ineconomi c.ru/ru/no4-40-2017-iyul-avgust .
5. UNESCO Science Report : Towards 2030 / http: // creativecomm ons. org / licenses / by-nd / 3.0 / igo .
6. Zhmud T.A. Portable innovation as a way to open new markets and diversify companies, http://www.ineconomic.ru/en/no1-37-2017-yanvar-fevral .
7. Zhuravlev V.V., Varkova N.Yu. Diversification of enterprises as an instrument for ensuring sustainable development and increasing the competitiveness of organizations in times of crisis, http://www.ineconomic.ru/ru/no1-37-2017-yanvar-fevral .
8. Indicators of innovation: 2017: statistical compilation / N.V. Gorodnikova, L.M. Gokhberg, K.A. Ditkovsky and others; Nat researched University "Higher School of Economics". - M .: HSE, 2017 .-- 328 p.
9. Innovative activity in the Russian Federation / issue 6 / Moscow 2016 / information and statistical material "Statistics of science and education".

10. Innovative complexity. General methodology and methods for organizing cognitive, communicative, social systems. Authors, Litres, September 2017
11. Christensen K. , Solving the problem of innovation in business: How to create a growing business and successfully support its growth / Alpina Publisher. - 2014 .-- 384s.
12. Kiseleva O.N. A conceptual approach to the formation and implementation of the strategy of innovative development of industrial enterprises // http://www.ineconomic.ru/ru/no4-40-2017-iyul-avgust .
13. Klaus Schwab, 4th industrial revolution, 2016.
14. Clayton Christensen, Creating Innovation. Creative techniques from Netflix, Amazon, and Google.
15. Lizunova Yu.A. Problems of Strategic Innovation Management // New Science: Experience, Traditions, Innovations. - 2015. - No. 6. S. 234-236. https://econ.wikireading.ru/48263 .
16. Paradise M.V. , Theory of Innovation and Innovation Processes. U bonnoe allowance / M.V. Paradise M-image. and science of Russia, Kazan. nat. researched technol. un-t - Kazan : Publishing House of KNITU, 2013 - 268 p.
17. Matveychev O. , What to do, Russia? Breakthrough strategies of the third millennium, September 2017.
18. Simon Dolan, Mario Reich Global Crisis. Beyond the Obvious / Litres, 5 Sept. 2017 year
19. Lacey Sarah . Dream, create, change! (How Young Entrepreneurs Change the World and Make a Fortune) "RVC Libraries".
20. Song Jeen, Lee Kenmook. Samsung's Way / Publisher: Olympus Business. - 2016.
21. Strategy of innovative development of the Russian Federation for the period until 2020.
22. Titov S.A. Strategic innovation: an integrated approach to creating competitive advantages through innovation in the company's business model https://www.fundamental-research.ru/en/article/view?id=39149 .
23. Titova N.V., Titov S.A., Chernyshev V.P., Titarenko R.B. Strategic innovations as a tool for creating competitive advantages of companies // Fundamental Research. - 2015. - No. 10-1. - S. 198-202; https://www.fundamental-research.ru/ru/article/view?id=39150 .
24. Tyulin A., Chursin A. Fundamentals of the management of innovative processes in high technology industries (practice): monograph / Publisher: Economics. - 2016.
25. Walter Isaacson. Innovators. As several geniuses, hackers and geeks made the digital revolution. / per. from English I. Kaganova, T. Lisovsky, O. Khramtsova.: AST: CORPUS; Moscow; 2015.
26. Barancheev, V.P. **Innovation Management** . Textbook / V.P. Barancheev, N.P. Maslennikova, V.M. Mishin. - M.: Yurait, 2018 .-- 720 c
27. Blokhina, T.K. Economics and **Management of an Innovation** Organization. Textbook / T.K.
Blokhina, O.N. Bykova, T.K. Ermolova. - M.: Prospect, 2017.
28. Abdikeev, Niyaz Mustyakimovich. Network organizational structures of production

high- tech products as a tool for technological breakthrough in Russia / N. M. Abdikeev, Yu. S. Bogachev, A. M. Oktyabrsky // Economics of modern Of Russia. - 2019 .-- No. 3. - S. 91-103. - (Economic policy and economic practice). - Bibliography: 16 titles.

29. Aldoshin, Sergey Mikhailovich. On the competitiveness of academic science in digital economy : based on the materials of the XI International Forum "Innovative development through the market of intellectual property " (Moscow, April 23, 2019) / S. M. Aldoshin // Intellectual Property Law. - 2019. - No. 2. - S. 18-20. -

30. Babkin, Alexander Vasilievich. Trends in the development of the digital economy based on research of scientometric databases / A. V. Babkin, N. S. Alekseeva // Economics and management. - 2019. - No. 6. - S. 16-25

31. Bayneva, Irina Ivanovna. Innovative technologies in lighting control systems / I. I. Baineva // Automation. Modern technologies. - 2019 .-- No. 9 .-- S. 417-421.

32. Baranovsky, Alexander Mechislavovich. Sugar beet cultivation in the Republic of Belarus using the innovative CONVISO SMART technology / A. M. Baranovsky, S. N. Gaityukevich, N. A. Lukyanuk // Sugar. - 2019. - No. 8. - S. 10-14. - (Technology of high yields). - Bibliography: 9 titles.

33. Berezovsky, Nikolai Ivanovich. Ecological and economic aspects of the use of innovative aspiration systems in the peat industry / N. I. Berezovsky, V. V. Boriseyko // Nature Management. - 2018.

c) software and Internet resources:

– MS Word, MS Excel, MS Power Point

- http://Executive.ru

- http://hbr-russia.ru

- Journal of the Guild of Leaders of Change // http://www.Kinsmark.com

- Edition for professional consultants http://consulting.ru/askeri_170

- Internet portal for managers // http://www.management.com.ua

- Club of Directors for Science and Innovation http://irdclub.ru

- The official website of Skolkovo // http://www.sk.ru

- The official website of the Institute of Management A dieses // http://russia.adizes.com

- Disruptive innovation: twenty years later // Clayton Christensen, Michael Raynor, Rory MacDonald / http://hbr-russia.ru/innovatsii/upravlenie-innovatsiyami/a17234/ .

- Portal for organizational change management // http://www.markus.spb.ru

- Russian Venture Company http://rvc.ru .

- Site about nanotechnology in Russia // http://www.nanonewsnet.ru

- Management of innovative risks http://www.masters.donntu.edu.ua

- Federal portal of small and medium-sized businesses

//http://smb.gov.ru/content/guide/doingbusiness/ market / intellect_own / integral

- Fund for the Promotion of the Development of Small Forms of Enterprises in the Scientific and Technical Field (Fund for Assistance and Innovation) http://fasie.ru/fund

- Encyclopedia of economist http://www.grandars.ru

11. Logistics training n raktiki

Classroom fund, multimedia.

Equipment for demonstration of lecturer presentations, student reports and messages:

– Classrooms (classrooms) with workplaces for lectures (by the number of students in the stream) and for seminars (by the number of students in separate groups);

– desktop personal computer with Microsoft Office 2016 ;
– multimedia projector;
– portable equipment is allowed - laptop and projector;
– screen (stationary or portable).

The audience	Name	Name
	Reading room of the RUDN Scientific Library	Workplace: system unit P4 C2D / 2550 MHz / 2048 MB / 250 GB / DVD ± RW / LCD monitor 17 " Microsoft Office 2007
17	Classroom	Multimedia projector - 1 pc., Screen - 1 pc.
101	Classroom	Multimedia projector - 2 pcs., sound stand - 1 pc., screen -2 pc.
103	Classroom	Multimedia projector - 1 pc., Screen -1 pc.
105	Classroom	Multimedia projector - 1 pc., Screen -1 pc.
107	Classroom	Multimedia projector - 1 pc., Screen -1 pc.
109	Classroom	Multimedia projector - 1 pc., Conference equipment, DVD recorder, audio equipment, screen - 1 pc.
27	Classroom	Multimedia projector - 1 pc., Screen - 1 pc.
	Conference Hall EF	Multimedia projector - 1 pc., Audio equipment

8 . Forms of intermediate and final certification in research

Period of study	Research work	Participation in scientific and practical conferences	Publications, dissertation, reports
Certification on 1 semester	Approval of the topic of research at a meeting of the department and at a	Participation in a scientific	

	meeting of the Academic Council of the Faculty of Economics. Approval of an individual curriculum. Determination of the relevance, scientific character and applied value of the topic of research work. The scientific novelty of the formulation of the question and the distinctive features of the research work in comparison with similar works performed by other authors.	conference	
Certification on the basis of 2 semesters	A clear statement of the purpose and objectives of the study. The tasks set in the research work should be concrete, realistically feasible, proceeding from the current state of the issue and proposals for further improvement of further provisions. The definition of the object and subject of research, the choice of basic methods. It is indicated on which basis it is supposed to conduct research on the topic as a whole and on its individual sections. Literature review (at least 100 items). Drawing up a program of theoretical and experimental research.	Participation in scientific conferences	At least 1 publication on the topic of research work. Verbal report on the work done, confirmed by the supervisor.
Certification based on the results of 3 semesters	Research Methodology. Methods and methods are listed that make it possible to identify a variety of factors affecting the phenomena under study. The procedure for obtaining the necessary materials is deciphered - the collection of digital statistical data, the study of documentation, observation, survey, experiment, etc. The methodology of the experiment is indicated - a diagram of the planned experiments, expected results. The main provisions to be defended. Theoretical, practical (experimental) research in the amount of 50%.	Participation in scientific conferences for testing scientific research	At least 2 publications on the topic of research work.
Certification based on the results of 4 semesters	Report on the structure of research work. Indication of chapters and paragraphs, disclosure of their contents. Theoretical, practical (experimental) research in the amount of 75%.	Participation in scientific conferences for testing scientific research	At least 2 publications on the topic of research work in peer-reviewed

			journals on the list of HAC. Development of Chapter 1 and Chapter 2 of the dissertation for the degree of candidate of economic sciences, approved by the supervisor. Scientific report at the meeting of the department.
Certification based on the results of the 5th semester	Theoretical, laboratory, experimental studies in the amount of 90% (in draft form). The manuscript of the research work should be submitted to the supervisor.	Participation in scientific conferences for testing scientific research	At least 1 publication on the topic of research work in peer-reviewed publications on the list of HAC.
Certification following the results of the 6th semester, examination of the dissertation research	Theoretical, practical (experimental) research in the amount of 100% (in draft form). The manuscript of the research work should be submitted for discussion to the responsible department. Based on the results of the discussion, the organization's conclusion is prepared in the form of an extract from the protocol of the department meeting.	Participation in scientific conferences for testing scientific research. Pre-protection on meeting of the department. Removing comments on the dissertation. Speech with the scientific report on the scientific qualification work	The final version of the dissertation manuscript for the degree of candidate of economic sciences. Developed abstract of the dissertation. The developed text of the scientific report and presentation

		in the framework of the GIA.	on scientific qualification work.

For admission of scientific qualification work to protection, at least three publications in the journals of the Higher Attestation Commission are required.

9. Funds for valuation tools.
Controlled Competency Assessment Program

No.	Competency Index	Name of valuation tools
one	1 UK-1, UK-3, UK-4, UK-6, OPK-1, OPK-2, OPK-3, PK-7.1, PK-7.2, PK-7.3.	Historical, theoretical and comparative analysis in the field of the studied problem. Presentation of the report in the form of a scientific text (scientific article, abstract, part of the dissertation, etc.).
2	1 UK-1, UK-3, UK-4, UK-6, OPK-1, OPK-2, OPK-3, PC-7.1, PC-7.2, PC-7.3.	Review and peer review of scientific literature Report submission in the form of abstract report and / or corresponding chapter of the dissertation
3	1 UK-1, UK-3, UK-4, UK-6, OPK-1, OPK-2, OPK-3, PC-7.1, PC-7.2, PC-7.3.	1. Speech at scientific conferences. 2. Publication of scientific articles in print media, online publications according to the list of Higher Attestation Commission. Submission of applications for grants for research activities. 3. Preparation of a dissertation corresponding to the plan developed jointly with the supervisor

When scoring, a point-rating system is used, in accordance with

with the Regulation on the BRS, the assessment of the quality of mastering basic educational programs adopted by the Decision of the Academic Council of the University (protocol No. 6 dated 06/17/2013) and approved by the Order of the University Rector dated 06/20/2013.

Grading system

BRS points	Traditional estimates of the Russian Federation	Estc
95-100	5	A
86-94		B
69-85	Four	C
61-68	3	D
51-60		E
31-50	2	Fx
0-30		F

All types of work are carried out exactly on schedule stipulated by the training program. If a graduate student *without good reason has* not completed any of the tasks, then points for this type of work are not awarded to him, and those prepared after the deadline are not evaluated.

Criteria for assessing knowledge, skills, and declared competencies about scientific research:

"Excellent" - answers all questions, as well as additional questions of the supervisor and faculty of the department; freely oriented in the basic methods of research work; actively worked throughout scientific research in accordance with the individual plan and the curriculum of graduate school; provided original schemes, techniques, the text of the candidate dissertation and abstract; demonstrates the ability to think logically and creatively solve problems; understands modern research issues according to the profile of preparation, has a manager's review with a rating of "good" or "excellent", timely passed the pre-defense of the dissertation at the department without significant comments;

"Good" - answers all questions, as well as some additional questions of the supervisor and the teaching staff of the department; freely oriented in the basic methods of research work; actively worked throughout scientific research in accordance with the individual plan and the curriculum of graduate school; provided improved schemes, techniques, the text of the dissertation and thesis; well versed in modern research issues on the subject of scientific research, has a manager's response to the report with a rating of "satisfactory" or "good" in a timely manner pre-defended a dissertation at the department and timely eliminated significant comments;

"Satisfactory" - answers the questions with varying degrees of completeness, and also tries to give the correct answers to some additional questions of the supervisor and the teaching staff of the department; has an idea of the basics of research work; has an idea of modern research issues on the research topic; provided parts of the dissertation; has a positive review of the head; made attempts to pass pre-defense at the department, but did not eliminate significant comments in a timely manner;

"Unsatisfactory" - cannot answer questions, including additional ones; Does not know the basic terms, did not work for a semester; did not provide the parts of the dissertation provided for by the individual plan and program; Has a negative review of the head, did not provide parts.

Positive marks, upon which scientific research is counted by a graduate student as passed, are grades A, B, C, D and E. A graduate student who has received an FX research grade must, after consulting with the appropriate teacher, successfully complete the required minimum time the amount of scientific work provided for by the training program, and present the results of this work to the supervisor. If the quality of work is found to be satisfactory, then the final grade of FX is increased to E and the trainee is allowed to further study. In the event that the quality of educational work remains unsatisfactory, the final grade is reduced to F and the student is submitted for expulsion. In the case of receiving an F or FX grade, the graduate student is presented for deduction regardless of whether he has any other debts in other disciplines.

The results of scientific research are approved at a meeting of the department during the certification of graduate students. An extract from the protocol of the meeting of the department signed by the head of the department is submitted to the postgraduate department.

Criteria for assessing knowledge, skills, and declared competencies for passing research

Designations		**Statement of requirements**
	Rating	**to the degree of competency**
one	Unsatisfactory (not set off) F2	Does not have the necessary understanding of the auditee Material
2	Satisfactorily E 3 *(at the discretion of the scientific leader)* or Unsatisfactory (set off not set off) FX 2+	Know at the level of orientation , perceptions. The subject of learning knows the main signs or terms of the studied element of content, their relevance to a particular science, industry or objects, recognizes them in texts, images or diagrams and knows what sources need to be addressed for more detailed assimilation of it
3	Satisfactorily (set off) D3 +	Know and be able to **reprodu** su- **m** level. The subject of learning knows the studied element of content reproductively: arbitrarily reproduces his knowledge verbally, in writing or in demonstrated actions
four	Good (set off) C4 +	Know, be able to own at an analytical level. Knowing at a reproductive level, indicate the features and relationships of the studied objects, their merits, limitations, history and development prospects, and features for different learning objects
5	Fine (set off) B 5 Or Fine A 5+ (at the discretion of the scientific leader)	Know, be able to own at the system level. The subject of learning knows the studied element of content systematically, arbitrarily and conclusively reproduces his knowledge verbally, in writing or in demonstrated actions, taking into account and indicating the connections and dependencies between this element and other elements of the content of the discipline, its significance in the content of the discipline

Developer:
Ph.D., associate professor of the department
"Applied Economics" S.Yu.Murtuzalieva

Program manager Doctor of Economics, Professor,
"Applied Economics" A.A. Chursin