

Federal State Autonomous Educational Institution of Higher Education
"Peoples' Friendship University of Russia"
HIGHER SCHOOL OF INDUSTRIAL POLICY AND ENTREPRENEURSHIP

APPROVED
at the meeting of the department
August 28, 2021, minutes No. 1

Head of the Department



A.A. Chursin

**PROGRAM
OF STATE FINAL ATTESTATION**

Specialization

38.06.01- ECONOMICS

(Code and the direction of training/specializationu)

Direction of the program (profile, specialization)

08.00.05-Economics and National Economy Management, profiles:

Innovation management, Management, Innovation management (English program)

(title of the educational program in accordance with the direction of the field of study)

Graduate qualification –researcher, research teacher

(qualification of the graduate in accordance with the decree of Ministry of education of Russian Federation dated 12.09.2013 №1061)

2021

1. General setup

1.1. **Responsibility and procedure for the preparation and conduct of state final exams** at RUDN University, as well as the list, sequence, timeframes for passing the documents necessary for the implementation of state final attestation, between structural divisions, determines the Procedure for conducting final state attestation of students.

1.2. State final exams at the field of 38.06.01 – Economics including final interdisciplinary state examination and defence of final qualifying thesis in the form of scientific report on the main results of the prepared scientific and qualification work

(the type of final qualifying work is indicated)

38.06.01-ECONOMICS

(основной образовательной программы)

includes final interdisciplinary state examination

(указывается наименование государственного экзамена)

And defense of the final qualification work in the form of scientific report on the main results of conducted scientific qualifying work

(указывается вид выпускной квалификационной работы)

1.3. **The results of any of the types of attestation tests included in the state final attestation** are determined by the marks "excellent", "good", "satisfactory", "unsatisfactory".

2. Goals and objectives of the state final certification

2.1. The purpose of the state final certification is to determine the compliance of the results of mastering the basic educational programs with the requirements of the OS VO RUDN.

State final certification includes a state examination established by the Academic Council of the University, and (or) the defense of the final qualifying work (WQ).

2.2. The tasks of the state final certification are

- checking the quality of teaching a person of basic natural science laws and phenomena necessary in professional activity;
- Determination of the level of theoretical and practical readiness of the graduate to perform professional tasks in accordance with the acquired qualifications;
- establishing the degree of the individual's aspiration for self-development, improving their qualifications and skills;
- checking the accomplishment of stable motivation for professional activity in accordance with the types of professional activity provided for by the OS of the RUDN University;
- checking the ability to find organizational and managerial solutions in non-standard situations and the willingness to bear responsibility for them;

- ensuring the integration of education and scientific and technical activities, increasing the efficiency of using scientific and technological achievements, reforming the scientific sphere and stimulating innovation;
- ensuring the quality of training in accordance with the requirements of the OS VO RUDN University.

3. The program of the state examination.

3.1. The state exam is carried out in the form of
oral examination

As part of the state exam, the degree of development of graduates of the following competencies are checked:

UK-1 - the ability to critically analyze and evaluate modern scientific achievements, generate new ideas when solving research and practical problems, including interdisciplinary areas;

UK-4 - readiness to use modern methods and technologies of scientific communication in the state and foreign languages;

OPK-1 - the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies,

OPK-3 - readiness for teaching activities in education

PK-6 (PK-6.1., PK-6.2., PK-6.3.) For the "Management" profile:

6.1. the ability to identify trends and patterns in the field of general and strategic management, innovation management, personnel management, modern production systems;

6.2. the skills of analyzing and solving the problems of the formation and development of the theory and practice of managing organizations as social and economic systems in order to reveal stable connections and patterns that determine the nature and content of these problems, the logic and mechanisms for their resolution;

6.3. the ability to develop scientific ideas about the system of public administration bodies and institutions, organizational and legal forms of commercial and non-commercial organizations (including virtual ones), regardless of the form of ownership, individual subdivisions of these organizations and individual processes occurring within organizations, about the personnel of organizations, as well as about associations of organizations (associations, unions, financial and industrial groups, networks, etc.) and the patterns of their functioning, taking into account the influence of the external environment.

PK-7 (PK-7.1., PK-7.2., PK-7.3.) For the "Innovation Management" profile:

7.1. the ability to identify areas and assess the effectiveness of innovative development of economic systems, scientific, technical and organizational renewal of socio-economic systems, as well as the use of methods and tools for assessing the results of innovation;

7.2. the skills of analyzing information and organizational support; application of methods and tools to substantiate the analysis and solution of the problems of innovative development of the national economy, management of the main parameters of innovative processes in the modern economy;

7.3. the ability to develop scientific ideas about the economic processes of the formation and organization of the effective functioning of the innovative sphere of the national economy, including a set of innovations created and mastered by regions, industries and enterprises as a result of innovative activity; mechanism of its investment development.

(a list of competencies (knowledge, skill, possession) is indicated in accordance with the requirements of the standard and curriculum)

3.2. The state exam includes: the number of examination papers-30, 15 papers for each profile, each paper contains 5 questions:

4 theoretical questions and 1 practical

(it is necessary to indicate the number of papers and the number of questions in the paper / the number of tests and the number of questions in the test)

Content of the state exam:

Unit 1 – Pedagogy of the Higher education

1. Modern development of education in Russia and abroad. The role of higher education in modern civilization. Integration processes in modern education
2. The place of the university in the Russian education Fundamentalization, humanization and humanization of education in higher education.
3. Educational component in vocational education.
4. Foundations of high school didactics: general concept of didactics, essence, structure and driving forces of teaching.
5. Principles of teaching as the main guideline in teaching.
6. Methods of teaching in higher education. The structure of teaching activities.
7. Pedagogical act as organizational and managerial activity. Self-awareness of a teacher and the structure of pedagogical activity.
8. Pedagogical abilities and pedagogical skills of a higher school teacher.
9. Didactics and pedagogical skills of a higher school teacher
10. Forms of organization of the educational process in higher education: lecture, seminars and practical classes, independent work of students as the development and self-organization of the personality of students.
11. Foundations of pedagogical control in higher education. Pedagogical design and pedagogical technologies.
12. Classification of teaching technologies of higher education.
13. Modular structure of discipline content and rating control.
14. Intensification of learning and problem learning.
15. Active learning, business game as a form of active learning.
16. Heuristic learning technologies, technology of sign-contextual learning, developmental learning technologies.
17. Information technology training. distance education technologies. Basics of preparing lecture courses. Informatization of the educational process.
18. Fundamentals of the teacher's communicative culture. Pedagogical communication
19. Features of student personality development, psychological and pedagogical study of student personality
20. Typology of personality of student and teacher

Block 2. Research methodology

1. Types of scientific research in economics.
2. Basic concepts and categories of scientific research.
3. The relationship between the scientific problem and the research topic.
4. Research methods typical for economic sciences.
5. Requirements for the quality of scientific information in economic research.
6. Definition of the subject and object of research in economics.
7. The content and use of the passport of scientific economic specialties
8. Preparation of research for approbation in the form of a scientific report.
9. Preparation of research for approbation by using its results in the educational process.
10. Registration of figures, tables, graphic objects in scientific research.
11. Organization of document flow for interaction with the performer of research work.
12. Types of implementation of the results of scientific research.
13. Determination of the main types of scientific results in economic research,
14. The relationship between scientific tasks and scientific results in the economy.
15. The mechanism for determining the goal of economic research and setting scientific objectives;
16. Technique for making the design of references and footnotes in the text of economic research.
17. Formation of a bibliographic list of dissertation research;
18. Requirements for the content of the review, recall of the official opponent for the dissertation of the candidate.
19. Requirements for the content of the review of the leading organization of the dissertation.
20. Quantitative and qualitative indicators for evaluating the effectiveness of scientific research in economics.

Block 3 - Special questions by profiles

For the "Management" profile:

1. Public administration as a social institution and a system of institutions.
2. Interaction of government with local authorities.
3. Methods and technologies for the participation of public authorities in the development and implementation of public policy.
4. Formation, development and implementation of state policy.
5. Concept and types of economic systems.
6. Theory of consumer behavior and market demand.

7. The theory of production, costs, profits and market equilibrium.
8. Development of solutions in conditions of risk and uncertainty.
9. Markets for factors of production. Firm in the resource market.
10. State, society and management decisions of the firm.
11. Institutional aspects of the market economy. Economic institutions as subjects and objects of state regulation.
12. Correlation of concepts Economics, management decision making, management economics, economic theory and world economy.
13. Production and economic system: general model, key performance indicators, innovative development.
14. Fundamentals of the organization of high technology production.
15. Features of production structures, production programs and operational management of production activities of high-tech industries.
16. The role of science in production activities, in the organization of high-tech production.
17. Management of innovative activities at all stages of the life cycle of enterprises.
18. Fundamentals of operational management of high-tech production.
19. Problems of high-tech production management in a changing environment.
20. Entrepreneurship in the development, production and sale of science-intensive and high-tech products.

For the Innovation Management profile:

1. Innovative economy: concept, content, formation and necessity for Russia.
2. Models of innovation processes and a systematic approach to innovation management
3. Conditions for innovative activity and activation of its main subjects.
4. National innovation system of Russia, RF policy in the field of intellectual property.
5. Institutions of innovation infrastructure, their role and development.
6. Forecasting and ensuring innovation.

7. The role of small business as a pilot production in innovation management.
8. Economic essence, role and types of investments in economic systems.
9. Investment and innovation activities in economic systems.
10. Characteristics of the investment and innovation environment.
11. Financial investment as a means of investment activity in economic systems.
12. Real investment as a tool for the balanced development of innovation and investment activities.
13. Investment project: concept, types, principles of analysis, performance evaluation.
14. Innovative projects: content, features, types, characteristics, management organization, ensuring competitiveness.
15. Methods for the selection and planning of projects taking into account the uncertainty, risk and competition
16. Basic functions of managing innovative projects in order to ensure their competitiveness and quality.
17. Cost management of a competitive innovation project.
18. Integrating functions of management of an innovative project.
19. Management of the competitiveness of innovative projects: forces, strategies and examples of projects that provide a technological breakthrough for the country in the context of global competition.
20. The role of international and Russian organizations in increasing the competitiveness of innovative projects.

(an approximate list of questions for the state exam is given)

4. Guidelines for the preparation and passing of the final state exam

4.1. Recommended reading 1. Block 1 - Pedagogy of higher education

Main literature:

1. Педагогическая практика: учебно-методическое пособие / Омск: Омский государственный университет, 2012. – 68 с. – ISBN 978-5-7779-1422-4 <http://biblioclub.ru/index.php?page=book&id=238039>
2. Педагогика и психология высшей школы: Учебное пособие. (ред. М. В. Буланова-Топоркова)
http://www.gumer.info/bibliotek_Buks/Pedagog/bulan/01.php

Additional literature

1. Гуслова М.Н. Инновационные педагогические технологии. —М., 2018 .
2. Даутова О.Б. Дидактика высшей школы: современные педагогические технологии обучения студентов. —СПб., 2018.
3. Ломакина Т.Ю. Коржуев А.В., Сергеева М.Г. Поисково-творческое самообразование преподавателя профессиональной школы: (дидактический аспект).—М., 2011.
4. Макарова Н.С. Трансформация дидактики высшей школы —М., 2018.
5. Методика преподавания в вузе /под ред. Л. В. Федякиной. —М., 2014 .
6. Онокой Л.С., Титов В.М. Компьютерные технологии в науке и образовании. —М., 2012 .
7. Подымова Л.С. Психолого-педагогическая инноватика: личностный аспект. —М., 2012.
8. Светлов В.А., Семенов В. А. Конфликтология.—СПб., 2011.
9. Соколов Е.А. Технологии проблемно-модульного обучения. Теория и практика.—М., 2012 .
10. Сорокопуд Ю.В. Педагогика высшей школы. —Ростов н/Д., 2011.
11. Чошанов М.А. Инженерия обучающихся технологий. —М., 2013.
12. Шарипов Ф.В. Педагогика и психология высшей школы. —М., 2012

Block 2. - Research methodology

Main literature:

1. Методология правовых исследований (электронный ресурс). УМК. Сост. М.В. Немытина, М., РУДН, 2018 <http://lib.rudn.ru/MegaPro/Web>
2. Шкляр, М.Ф. Основы научных исследований : учебное пособие / М.Ф. Шкляр. - 5-е изд. - М. : Дашков и Ко, 2018. - 244 с. <http://biblioclub.ru/index.php?page=book&id=253957>

Additional literature

1. Новиков А.М., Новиков Д.А. Методология научного исследования.- Саратов, 2018.
2. Михайлов В.А. Горев П.М. Утемов В.В. Научное творчество: Методы конструирования новых идей. —М., 2018.
3. Тульчинский Г.Л., Артемьева Т.В. Фандрейзинг: привлечение средств на проекты и программы в сфере культуры и образования. —М., 2010.
4. Шипилина Л.А. Методология и методы психолого-педагогических исследований. -М., 2015.

Block 3 - Special questions depending on the profiles

Main literature for the "Management" profile:

1. Богословская Анна Борисовна. Информационные технологии в экономике [электронный ресурс] : Методические рекомендации. - электронные текстовые данные. - М.: Изд-во РУДН, 2011. - 24 с. <http://lib.rudn.ru:8080/MegaPro/Web>
2. Нуреев Р.М. Курс микроэкономики: Учебник. — 2-е изд., изм. - М.: Норма: НИЦ Инфра-М, 2012
3. Государственное регулирование рыночной экономики. Учебное пособие. - М.: Изд-во «Дело». 2001/-/Раклов Вячеслав Павлович.

Additional literature for the profile “Management”

1. Национальная экономика. Учебник / Под ред. Р.М. Нуреева. - М.: Инфра-М, 2012
2. Исследование операций в экономике: Учебное пособие для вузов / Под ред. Н.Ш. Кремера. - 3-е изд., перераб. и доп. - М.: Юрайт, 2013. - 438 с.
3. Азими́на Екатерина Валерьевна. Организация управления хозяйственными системами [Текст] / Под общ. ред. В.Н.Андреева. - СПб.: Нестор-История, 2011. - 212 с.

Main literature for the “Innovation management” profile:

1. Курбанов В. В. Конкурентоспособность российских предприятий в мировой экономике. - М.: Лаборатория книги, 2012. – с. 239 <http://biblioclub.ru/index.php?page=book&id=140510&sr=1>
2. Мокроносов А. Г., Маврина И. Н. Конкуренция и конкурентоспособность: учебное пособие. - Екатеринбург: Издательство Уральского университета, 2014. – с. 195 <http://biblioclub.ru/index.php?page=book&id=275940&sr=1>
3. Чурсин А.А. Инновации и инвестиции в деятельности организации [Электронный ресурс]: Монография. - М.: Машиностроение, 2010. - 469 с. <http://lib.rudn.ru:8080/MegaPro/Web/SearchResult/ToPage/1>

Additional literature for the “Innovation management” profile

1. Андрианов А.Ю. Инвестиции : Учебник / Отв. ред.: В.В.Ковалев, В.В.Иванов, В.А.Лялин. - 2-е изд., перераб. и доп.. - М. : Проспект, 2011. - 592 с. : ил.. - ISBN 978-5-392-01650-1
2. Оценка бизнеса : Учебное пособие для вузов / Под ред. В.Е.Есипова, Г.А.Маховиковой. - 3-е изд.. - СПб. : Питер, 2010. - 512 с.

3. Матюшок С.В., Смаржевский И.А. Проектный анализ: Учебное пособие / Под общ. ред. В.М. Матюшка. - М.: Изд-во РУДН, 2010. - 208 с.

(указывается рекомендуемая литература для подготовки к государственному экзамену)

(recommended literature for preparation for the state exam is indicated)

4.2. Additional recommendations. At the state exam tables, diagrams, posters, computers are used

(additional recommendations are given, such as: the possibility of using software products for preparation for the state exam, using computers, printed materials, etc.)

3. Evaluation tools designed to establish, in the course of certification tests, compliance / non-compliance of the level of training of graduates who have completed the development of EP HE in the direction of training / specialty, the requirements of the corresponding OS VO RUDN University.

The marking is presented in the form of a fund of appraisal funds for the final (state final) certification, namely:

- a list of competencies that students must master as a result of mastering the educational program;
- description of indicators and criteria for assessing competencies, as well as assessment scales;
- typical tasks or other materials necessary to assess the results of mastering the educational program;

For example: the score for the oral response in the interdisciplinary exam:

The grade "5" (excellent) is given if:

- the content of the examination paper material is fully disclosed;
- the material is presented correctly, in a certain logical sequence;
- demonstrated systematic and deep knowledge of program material;
- terminology is used accurately;
- shown the ability to illustrate theoretical provisions with specific examples, to apply them in a new situation;
- the assimilation of previously studied related issues, the formation and stability of competencies, abilities and skills has been demonstrated;
- the answer sounded independently, without leading questions;
- demonstrated the ability to creatively apply knowledge of theory to solving professional problems;
- demonstrated knowledge of modern educational and scientific literature;
- one or two inaccuracies were made in the coverage of secondary issues, which are corrected according to the remark.

The grade "4" (good) is given if:

- questions of the examination material are presented in a systematic and consistent manner;
- demonstrated the ability to analyze the material, but not all conclusions are reasoned and evidentiary;
- the assimilation of the main literature is demonstrated.
- the answer basically satisfies the requirements for the mark "5", but at the same time has one of the drawbacks:
there are small gaps in the statement that did not distort the content of the answer;

one or two shortcomings were made in the coverage of the main content of the answer, corrected according to the comment of the examiner;
a mistake or more than two shortcomings were made in the coverage of secondary questions, which are easily corrected at the comment of the examiner.

The grade "3" (satisfactory) is given if:

- *the content of the material is incomplete or inconsistently disclosed, but a general understanding of the issue is shown and skills are demonstrated that are sufficient for further assimilation of the material;*
- *mastered the main categories on the considered and additional issues;*
- *there were difficulties or mistakes in the definition of concepts, the use of terminology, corrected after several leading questions;*
- *with incomplete knowledge of the theoretical material, insufficient formation of competencies, abilities and skills were revealed, the student cannot apply the theory in a new situation;*
- *the digestion of the main literature is demonstrated.*

The grade "2" (unsatisfactory) is given if:

- the main content of the educational material has not been disclosed;
- found ignorance or misunderstanding of the most or the most important part of the educational material;
- mistakes were made in the definition of concepts, when using terminology, which were not corrected after several leading questions.
- competencies, skills and abilities are not formed.

6. Requirements for the final scientific and qualification work

6.1. A student who has passed the state exam (if any) is allowed to defend the NKR. The defense of the NKR is held at an open meeting of the State Examination Commission (SEC).

State final attestation is carried out in the form of an oral presentation by the NKR with subsequent oral answers to questions from the SEC members in accordance with the University Regulations on FQP. The report and / or answers to questions from the SEC members may be in a foreign language.

6.2. As part of the defense of scientific and qualification work

(the type of final qualifying work is indicated)

the degree of development of graduates of the following competencies is checked:
UK-1 the ability to critically analyze and evaluate modern scientific achievements, generate new ideas when solving research and practical problems, including interdisciplinary areas

-UK-2 the ability to design and carry out complex research, including interdisciplinary, based on a holistic systemic scientific worldview using knowledge in the field of history and philosophy of science

UK-3 willingness to participate in the work of Russian and international research teams to solve scientific and scientific - educational problems

UK-4 readiness to use modern methods and technologies of scientific communication in the state and foreign languages, including the readiness for communication in oral and written forms in Russian and foreign languages to solve the problems of professional activity, possession of foreign language communicative competence in official business, educational professional, scientific, socio-cultural, everyday life spheres of foreign language communication

UK-5 ability to follow ethical standards in professional activities

OPK-1 the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies

OPK-2 readiness to organize the work of the research team in the scientific industry corresponding to the field of learning

OPK-3 readiness for teaching activities in educational programs of higher education

PK-1 the ability to identify stable, repetitive relationships in socio-economic phenomena and processes, their structural characteristics, patterns of functioning and trends in the development of economic relations, an explanation on this basis of existing facts and processes of socio-economic life, understanding and foreseeing economic and political events

PK-2 skills of finding and comprehending new, as well as rethinking previously known facts, processes and trends that characterize the formation, evolution and transformation of socio-economic systems and institutions, national and regional economies in historical retrospect

PK-3 the ability to analyze the directions and stages of development of economic thought in conjunction with the socio-economic conditions of the corresponding periods and the characteristics of different countries and peoples

(a list of competencies is indicated in accordance with the standard and curriculum)

6.3. The list of topics of scientific and qualification work of a postgraduate student (the type of final qualifying work is indicated)

1. Improvement of the methodology of the system of planning and management of innovative activities of scientific and industrial enterprises.

2. Improving the procurement system at a modern research and production enterprise.

3. Development and improvement of risk management tools in the field of space projects

4. Development and improvement of risk management tools in the field of space projects

5. Systematization of forms of management at enterprises of the rocket and space industry on the basis of Data Mining /.
 6. Methods for analyzing space projects and assessing their feasibility based on economic and mathematical modeling.
 7. Tools for assessing the effectiveness of innovative production in the space industry based on simulation.
 8. Methods for assessing the level of competence in the rocket and space industry using big data analysis
 9. Improving the resource management system of corporations of the rocket and space industry in Russia.
 10. Improving the human resource management system of an enterprise in the context of its digital transformation
 11. Development of tools and mechanism of state support for industrial enterprises
 12. The mechanism of personnel management tools for a holding company in a digital economy
 13. Development of a risk management mechanism for the balanced development of innovative and investment activities of an industrial holding
 14. Creation of economic instruments for the effective use of financial resources aimed at the innovative development of the organization
 15. The mechanism of integration of science and production in the digital economy and assessment of its effectiveness
- (it is necessary to provide a list of FQP topics, including at the request of enterprises / organizations and proposed by students)

6.4. Tasks that the student must solve in the process of performing scientific and qualification work, the graduate student *must take into account the requirements of the OS of HE and the professional standard (if any) for the professional preparedness of the graduate student and include:*

- substantiation of the relevance of the topic, due to the needs of theory and practice and the degree of elaboration in scientific and scientific-practical literature;
 - a statement of theoretical and practical provisions that reveal the subject of the final qualifying work;
- Contains graphic material (drawings, graphics, etc.) (if necessary);
- conclusions, recommendations and suggestions;
 - a list of sources used;
 - applications (if necessary)

For the scientific and qualification work of a graduate student (the type of final qualifying work is indicated

6.5. The stages of the final qualifying work (FQW), the conditions for admitting a student to the defense procedure, requirements for the structure, volume, content and design, as well as the list of mandatory and recommended documents submitted for defense are indicated in the methodological instructions approved in the prescribed manner:

The result of the research work should be a final qualification work, which contains a solution to a problem that is significant for the economy, or scientifically grounded technical, technological or other solutions and developments that are essential for the development of economic science. In a scientific research on economics, which is of an applied nature, information should be provided on the practical use of the scientific results obtained by the author, and in a scientific economic study of a theoretical nature, recommendations on the use of scientific findings

The final qualifying work must be written by a graduate student independently, have internal unity, contain new scientific results and provisions put forward. The solutions proposed by the graduate student should be reasoned and evaluated in comparison with other known solutions. The main scientific results of the study must be published in peer-reviewed scientific journals (at least two publications).

Requirements for the content of the final qualifying work. The content of the Scientific qualification work (SQW) should take into account the requirements of the OS of HE and the professional standard (if any) to the professional preparedness of the graduate student and include:

- substantiation of the relevance of the topic, due to the needs of theory and practice and the degree of elaboration in scientific and scientific-practical literature;
- a statement of theoretical and practical provisions that reveal the subject of the FQW;
- contain graphic material (drawings, graphics, etc.) (if necessary);
- conclusions, recommendations and suggestions;
- a list of sources used;
- applications (if necessary).

Requirements for the structure of the SQW. Materials of the final qualifying work must consist of structural elements, arranged in the following order:

- title page;
- essay;
- content with page numbers;
- introduction;
- the main part (chapters, paragraphs, clauses, sub-clauses);
- chapter conclusions;
- conclusion;
- list of sources used;
- applications

(the full name of the guidelines is indicated)

6.6. Evaluation Tools.

The evaluation tools are presented in the form of a fund of evaluation for the final (state final) certification, namely:

- a list of competencies that students must master as a result of mastering the educational program;
- description of indicators and criteria for assessing competencies, as well as assessment scales;
- Grade "excellent" - the graduate student exhaustively, logically and reasonably sets out the material of the question, closely links the theory of pedagogy of higher education and with the practice of higher education; substantiates his own point of view when analyzing a specific research problem, competently uses the methods of economic research, freely answers additional questions posed, makes well-founded conclusions.
- Grade "good" - the graduate student demonstrates knowledge of the basic provisions in the field of pedagogy of higher education and the organization of research activities without the use of additional material; shows the consistency and evidence of the presentation of the material, but allows some inaccuracies when using complex economic concepts; there are minor errors in the answers to the supplementary questions.
- Grade "satisfactory" - the graduate student superficially reveals the main theoretical principles of higher education pedagogy, organization of research activities, he does not have knowledge of special terminology in higher education pedagogy and in the field of economics; there are significant gaps in the assimilation of the program material, the material presented is not systematized; conclusions are not enough reasoned, there are semantic and speech errors.
- Grade "unsatisfactory" - the graduate student makes factual errors and inaccuracies in the field of higher education pedagogy and methodology of scientific research and, he does not have knowledge of special terminology, the logic and sequence of presentation of the material is broken; does not answer additional questions on the topics under discussion, cannot formulate his own point of view on the issue under discussion.

Subject of essays in the discipline "Methodology of scientific research"

"Formation of an annotated statement of the dissertation work plan, planning of scientific novelty and its elements, substantiation of scientific increment."

- **Scale and criteria for evaluating the essay.**

| Essay grading scheme | |
|----------------------|---|
| Grade | Description |
| 20 | 1) the introduction clearly formulates a thesis corresponding to the topic of an essay; 2) dividing the text into introduction, main part and conclusion; 3) the thesis put forward is proved in a logical, coherent and complete manner; 4) the conclusion contains conclusions that logically follow from the content of the main part; 5) correct (appropriate and sufficient) use of various means of communication; 6) to express his thoughts does not use simplified primitive language; 7) Demonstrates full understanding of the problem. All requirements for the assignment are met. |
| 15 | 1) the thesis is clearly formulated in the introduction, corresponding to the topic of the abstract; 2) in the main part, the thesis put forward is logically, coherently, but not fully enough described; 3) the conclusion contains conclusions that logically follow from the content of the main part; 4) a variety of means of communication are used appropriately; 5) the student does not use a simplified primitive language to express his thoughts. |
| 10 | 1) the thesis is clearly formulated in the introduction, corresponding to the topic of the essay; 2) in the main part, the thesis put forward is not proved sufficiently logically (convincingly) and consistently; 3) conclusion does not fully correspond to the content of the main part; 4) insufficient or, conversely, excessive use of communication techniques; 5) the language of the work as a whole does not correspond to the level of the course. |
| 5 | 1) in the introduction, the main topic is formulated unclearly or not completely corresponds to the topic of the essay; 2) in the main part, the problem put forward is insufficiently proved logical (convincing) and consistent; 3) conclusions do not fully correspond to the content of the main part; 4) insufficient or, conversely, excessive use of communication techniques; 5) the language of the work as a whole does not correspond to the level of the course. |
| 0 | 1) 1) the work is not written on the specified topic; |

Assessment of the discussion

Discussion topics:

Topic 2: Specificity of the methodology of economic research.

Topic 5: The relationship of scientific tasks and scientific results of economic research.

Topic 6: The system of methods and forms of scientific research.

Topic 16: Qualitative and quantitative indicators for evaluating the effectiveness of scientific research.

Criteria for evaluation:

Participation in the discussion is rated from 0 to 5:

| Criteria for evaluation | Marks | | |
|---|--|--|--------------------------------------|
| | The answer does not meet the criterion | The answer partially meets the criterion | The answer fully meets the criterion |
| The student took part in the discussion not only within the mandatory aspects | 0 | 0,5 | 1 |
| The student's statements were logically structured | 0 | 0,5 | 1 |
| The student showed respect for other participants in the discussion, observed the norms of speech etiquette | 0 | 0,5 | 1 |
| The student in his statements relied on previously acquired knowledge and competencies | 0 | 0,5 | 1 |

**Examination papers
in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER No. 1**

1. General scientific methods as universal techniques and procedures for scientific research.
2. Economic phenomenon and economic fact. The structure of economic science (criterion of procedure, algorithm). The role of experiment in the theory of economics. An ideal experiment and its possibilities.

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**in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER No. 2**

1. Economics and chrematistics of Aristotle, his "true" and "false" wealth. Two strands of wealth science. Aristotle's method of economic duality. Systems approach and Aristotle's categories.
2. Economic concepts, categories, laws and patterns. The concept of economic laws in different scientific schools. The laws of nature and economic laws. Types of economic laws and laws of law.

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**Examination papers
in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER №3**

1. Empiric facts (phenomena), idea (paradigm, axiomatics), hypothesis, axiomatic premises, research logic, concept, theory.
2. The structure of the cognitive process of economic phenomena. Subject-object relations and levels of the cognitive process (ontological, linguistic, rhetorical, methodological).

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**Examination papers
in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER №4**

1. The concepts of an object, subject area, methodology, method, analytical tools and techniques in various scientific schools.
2. The emergence of Marx's political economy: the preconditions of economic practice and questions for everyday consciousness, science. Subject framework, initial methodological positions, attitudes and principles of research.

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**Examination papers
in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER №5**

1. Economic idea and ideology in theory and practice. Metaphor, its role and significance in the research process of economic systems.
2. The paradigm of economic science and its main (substantial) elements. "Hard core" and "protective shell" of the paradigms of the theory. Institutional foundations of paradigms of dominant schools and regional schools

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**Examination papers
in the discipline "METHODOLOGY OF SCIENTIFIC RESEARCH"
EXAMINATION PAPER №5**

1. Empirical and theoretical basis of the research. Integral research method. Logic and structure of scientific research.
2. The novelty of theoretical research: the novelty of the introduced concepts, or the interpretation of the existing conceptual apparatus; the novelty of the posed theoretical problem; the novelty of the hypothesis; the novelty of theoretical provisions within the current paradigm; reasoned novelty of the paradigmatic theory; development of new methods and techniques for carrying out theoretical research.

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- typical tasks or other materials necessary to assess the results of mastering the educational program;
- methodological materials that determine the procedures for assessing the results of mastering the educational program.

The program has been constructed in accordance with the requirements of the OS of VO RUDN.

Developers:

PhD in Economics, assistant professor of applied economics

A.A. Ostrovskaya

Program manager

Head of the Department of Applied Economics



A.A. Chursin

