

Federal State Autonomous Educational Institution of Higher Education  
PEOPLE'S FRIENDSHIP UNIVERSITY OF RUSSIA (RUDN)  
Graduate School of Industrial Policy and Entrepreneurship

Approved  
at the meeting of the department  
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Head of the Department of Applied Economics



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## **THE WORKING PROGRAM OF THE DISCIPLINE**

**«Scientific Research Methodology»**

**Direction of training: 38.06.01. ECONOMY**  
**Training of highly qualified personnel (postgraduate studies)**

**Focus of the program (profile): "Management", "Management of  
innovations"**

Moscow, 2021

## 1. Goals and objectives of the discipline:

The purpose of mastering the discipline "Methodology of scientific research" in the direction of "Economics" is to gain knowledge in the field of modern methodology of scientific knowledge.

The study of the discipline involves the implementation of the following tasks:

- Formation of the theoretical foundations of scientific thinking and practical skills of research work in postgraduate students when writing a Ph.D. thesis;
- Application of a systematic approach and principles of its organization in research work;
- Study of world experience in the field of scientific achievements and the application of international practices of scientific research in the work on dissertation research;
- Substantiation of the elements of the scientific contribution of the author by stages of economic research;
- Study of the typical structure of scientific research (dissertation) in economics and its adaptation to the goals and objectives of their own research; - preparation for the thesis defense procedure, paperwork, and answers to possible questions.

## 2. Place of discipline in the structure of EP HE:

The discipline "Research Methodology" refers to the variable part of block 1 of the curriculum.

Table 1 shows the previous and subsequent disciplines aimed at the formation of discipline competencies in accordance with the competence matrix of EP HE.

Table № 1

### Prior and subsequent disciplines aimed at the formation of competencies

№	Code and name of competence	Preceding disciplines	Subsequent disciplines (groups of disciplines)
<b>General professional competencies</b>			
GPC-1	the ability to independently carry out research activities in the relevant professional field using modern research methods, information and communication technologies	Innovation management	Modern economic theory
GPC -2	readiness to organize the work of the research team in the scientific industry corresponding to the field of study	Innovation management	
<b>Professional competencies (type of professional activity)</b>			
PC-2	skills of finding and comprehending new ones, 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	Innovation management Higher education pedagogy	Modern economic theory
<b>Universal competences</b>			

UC-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	History and philosophy Innovation management	Modern economic theory
UC-3	Readiness to participate in the work of Russian and international research teams to solve scientific and scientific and educational problems	Innovation management	Modern economic theory
UC-4	the 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 and professional, scientific, socio-cultural, everyday-everyday spheres of foreign language communication.	Foreign language	Foreign language in the field of professional communication

### 3. Competencies formed as a result of mastering the discipline

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

1. GPC-1 the ability to independently carry out research activities in the relevant professional field using modern research methods and information and communication technologies;
2. GPC-1 willingness to organize the work of the research team in the scientific industry corresponding to the direction of training;
3. PC-2 the skills of finding and comprehending new ones, 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;
4. UC-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;
5. UC-3 readiness to participate in the work of Russian and international research teams to solve scientific and scientific and educational problems;

6. UC-4 the 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 and professional, scientific, sociocultural, everyday life spheres of foreign language communication.

As a result of mastering the discipline, a graduate student should:

**Know:**

- the principles of a modern systematic approach to scientific research;
- features and principles of the organization of scientific work;
- works of domestic and foreign authors on the research problem;
- methods of scientific research;
- The stages of economic research and its typical structure.

**Be able to:**

- work with various bibliographic sources and modern scientific databases;
- to determine the elements of the author's scientific contribution by stages of economic research;
- to formalize the results of scientific work in the form of scientific publications;
- to formalize the results of scientific work for protection, taking into account the current requirements.

**Own:**

- methodology and methodology of modern scientific research;
- legislative and regulatory legal acts of the Russian Federation in their field of research;
- the methods of general scientific knowledge (formal logic, dialectics);
- methods of a systematic approach (logical, structural, situational);
- Economic and mathematical methods of processing statistical information.

**4. The scope of the discipline and types of educational work**

The total workload of the discipline is 4 credit units, 144 hours.

Type of academic work		Total hours	Semesters			
			1	2	3	4
<b>1.</b>	<b>Classroom sessions (total)</b>	36	36			
	Including:					
1.1.	Lectures	24	24			
1.2.	Seminars (With), Practical training (PZ)	12	12			
<b>2.</b>	<b>Independent work (total)</b>	102	102			
	control					
<b>3.</b>	<b>Total labor intensity (Acad. hours)</b>	144	144			
	<b>Total labor intensity (credits)</b>	4	4			

## 5. Content of the discipline

### 5.1. Content of the subjects

No	Name of the discipline section	Section content (topics)
1	Section 1. "Introduction to the theory of scientific research in Economics".	Topic 1. The place and role of methodology in the system of scientific knowledge.
		Topic 2. Specifics of the methodology of economic research.
2	Section 2. "Statement of the scientific problem, goals and objectives of the research".	Topic 3. Main structural components of scientific research
		Topic 4. The contents of the passport of scientific specialty. Compliance of the research goal and task with the passport of the scientific specialty.
		Topic 5. Interrelation of scientific tasks and scientific results in economic research.
3	Section 3. "Methods of scientific research in Economics".	Topic 6. System of methods and forms of scientific research.
		Topic 7. Application of General scientific methods in economic research.
		Topic 8. Tools for systematization of theory, generalization of practice, economic and mathematical modeling.
4	Section 4. "Scientific and technical information".	Topic 9. Principle of scientific information in the economy and ways of its receipt.
		Topic 10. Methods for processing and visualizing economic information.
5	Section 5. "Main types of scientific results in economic research and their approbation".	Topic 11. Scientific novelty and its elements, scientific increment.
		Topic 12. Types of approbation and implementation of scientific research in the economy.
		Topic 13. Requirements for the content of the review, external review and review of the official opponent.
6	Section 6. "Rules for registration of research works, evaluation and analysis of effectiveness".	Topic 14. Functions of subjects of the research activities: the contractor, customer, reviewer, and official opponent.
		Topic 15. Design of figures, tables, graphic objects in scientific research, the technique of design of references and footnotes in the text of the study and the formation of a list of references.
		Topic 16. Qualitative and quantitative indicators for evaluating the effectiveness of scientific research.

### 5.2. Sections of disciplines and types of classes

No	Name of the discipline section	Les.	Pr. sem	control	Ind. w	Total hrs.
1.	Section 1. "Introduction to the theory of scientific research in Economics".	4	2	1	16	16
2.	Section 2. "Statement of the scientific	4	2	1	17	26

	problem, goals and objectives of the research".					
3.	Section 3. "Methods of scientific research in Economics".	4	2	1	17	26
4.	Section 4. "Scientific and technical information".	4	2	1	17	24
5.	Section 5. "Main types of scientific results in economic research and their approbation".	4	2	1	18	26
6.	Section 6. "Rules for registration of research works, evaluation and analysis of effectiveness".	4	2	1	17	26
	Subtotal	24	12	6	76	144

**6. Laboratory workshop:** not provided.

**7. Practical classes (seminars)**

No	discipline section no.	Topics of practical classes (seminars)	Labor intensity (hour.)
1	Section 1. "Introduction to the theory of scientific research in Economics".	Topic 1. The place and role of methodology in the system of scientific knowledge.	2
		Topic 2. Specifics of the methodology of economic research.	
2	Section 2. "Statement of the scientific problem, goals and objectives of the research".	Topic 3. Main structural components of scientific research	2
		Topic 4. The contents of the passport of scientific specialty. Compliance of the research goal and task with the passport of the scientific specialty.	
		Topic 5. Interrelation of scientific tasks and scientific results in economic research.	
3	Section 3. "Methods of scientific research in Economics".	Topic 6. System of methods and forms of scientific research.	2
		Topic 7. Application of General scientific methods in economic research.	
		Topic 8. Tools for systematization of theory, generalization of practice, economic and mathematical modeling.	
4	Section 4. "Scientific and technical information".	Topic 9. Principal of scientific information in the economy and ways of its receipt.	2
		Topic 10. Methods for processing and visualizing economic information.	
5	Section 5. "Main types of scientific results in economic research and their	Topic 11. Scientific novelty and its elements, scientific increment.	2
		Topic 12. Types of approbation and implementation of scientific research in the economy.	

	approbation".	Topic 13. Requirements for the content of the review, external review and review of the official opponent.	
6	Section 6. "Rules for registration of research works, evaluation and analysis of effectiveness".	Theme 14. Functions of subjects of the research activities: the contractor, customer, reviewer, and official opponent.	2
		Topic 15. Design of figures, tables, graphic objects in scientific research, the technique of design of references and footnotes in the text of the study and the formation of a list of references.	
		Topic 16. Qualitative and quantitative indicators for evaluating the effectiveness of scientific research.	

### 8. Material and technical support of the discipline:

Electronic educational materials used by teachers in the educational process, multimedia presentations, a bank of test tasks, etc. are presented on the TUIS and Web-local portals. In addition, for the implementation of the educational process, 1 teacher's workplace is required in the classroom, the following equipment is used for conducting classes:

- classroom board - 1 pc .;
- multimedia projector - 1 pc .;
- screen - 1 pc .;
- personal computers (laptops, tablets) for practical training;
- MicrosoftTeams and TUIS for conducting classes using distance learning technologies.

### 9. Information support of the discipline

- a) software - special software, with the exception of Microsoft Office and Microsoft Teams (in the case of classes using distance technologies), is not required.
- b) databases, information and reference and search systems - the database of dissertations of the RSL ([www.diss.rsl.ru](http://www.diss.rsl.ru)), databases: <http://elibrary.ru>, <https://www.researchgate.net>, <https://cyberleninka.ru>

### 10. Educational and methodological support of the discipline:

#### a) Basic literature

1. History and Philosophy of Science: textbook. Manual / b. n. malkov [et al.]. - m.: RPA of the ministry of justice of Russia, 2012.
2. Lebedev, S. A. Philosophy of science: textbook. Manual / S. A. Lebedev. - Moscow: yurayt, 2013.
3. Malkov, B. N. Philosophy for lawyers: textbook / B. N. Malkov, G. A. Torgashev. - M.: Unity-Dana, 2013.
4. Malkov, B. N. Philosophy of law: educational and methodological kit / B. N. Malkov. - M.: Astramedia, 2013.
5. Methodology and methodology of scientific research: textbook. Manual / B. N. Malkov [et al.]. - Moscow: RPA of the Ministry of justice of Russia, 2013.
6. Methodology of statistical research of socio-economic processes. Scientific publication. / Edited by V. G. Minashkin. - M.: UNITY, 2015. - 387 p.
7. Ovcharov, A. O. Methodology of scientific research: textbook / A. O. Ovcharov, T. N. Ovcharova. - M.: Infra-M, 2014.
8. Ponomarev, A. B. Methodology of scientific research: textbook. Manual / A. B. Ponomarev, E. A. Pikuleva. - Perm: publishing house of Perm. NATs. Research. Poly-tech. UN-TA, 2014. - 186 p.

## b) Additional literature

9. Andreev, G. I. Fundamentals of scientific work and methodology and dissertation research / G. I. Andreev, V. V. Barvinenko, V. S. Verba.. - M.: fis, 2012. - 296 p.
10. Dmitriev M. N. Methodology and methodology of research in economics [text]: textbook /M. N. Dmitriev; Nizhny Novgorod State University. - stro-it. Un-t-N. Novgorod: NNGASU, 2014. - p. 93
11. Krutikov V. K., Zaitsev Yu. V., Kostina O. I. Methodology and methodology in economic research. Educational and methodical manual. 2nd edition, revised and expanded. Kaluga: Eidos publishing house, 2012, 170 p.
12. Methodology of scientific research [Text]: guidelines for the discipline / comp. M. A. Golovchin. – Vologda: INSTITUTE of Vanc wounds, 2017. – 32 p.

## c) Internet resources

11. <http://school-collection.edu.ru/>.
12. <http://www.edu.ru/>.
13. <http://www.igumo.ru/>.
14. <http://elibrary.ru/defaultx.asp>.
15. [www.gumer.info](http://www.gumer.info).
16. [www.koob.ru](http://www.koob.ru).
17. [www.diss.rsl.ru](http://www.diss.rsl.ru).
18. <http://fictionbook.ru>.
19. <http://hum.offlink.ru>.
20. <http://svitk.ru>.
21. <http://anthropology.ru>.
22. <http://www.iqlib.ru>.
23. <http://www.integro.ru>.
24. <http://biblioteka.org.ua>.
25. <http://iph.ras.ru>.
26. <http://phenomen.ru>.
27. <http://vphil.ru/>.
28. <http://www.vuzlib.net/>.
29. <http://ezoteric.polbu.ru/>

## 11. Methodical instructions for students on mastering the discipline

Teaching the course involves teaching methods such as seminars, business games, case studies, group and individual counseling, master classes, and independent work of graduate students.

Types of classes and teaching methods:

Seminars	Classroom dialogue form of classes on one of the topics of the course, involving the active participation of graduate students (all or some of them), aimed at developing their skills for independent theoretical analysis of the problems considered in the course, including by studying the texts of primary sources, accumulation practical experience in solving typical professional problems.
Business games	Joint activities of a group of students and a teacher under the guidance of a teacher in order to solve educational and professionally oriented tasks through a game modeling a real problem situation.
Case tasks	A problematic task in which the student is asked to comprehend a real professionally oriented situation.



Group Academic Counseling	The main task of group academic consulting is a detailed or in-depth consideration of some topics of the theoretical course, the development of which, as a rule, causes difficulty for some graduate students. At the request of graduate students, it is possible to submit additional topics for discussion: topics of particular interest to them, which do not receive sufficient coverage in the course. This form of classes is mandatory for the teacher, the student has the right not to take part in such a consultation if he has successfully mastered this section of the course on his own or if the additional topic discussed does not interest him.
Individual consultations	An out-of-class form of the teacher's work with an individual graduate student, which implies a discussion of those sections of the discipline that were unclear to the student.
Master Class	Lecture and / or group consulting by an invited well-known and highly qualified foreign or domestic scientist (or practice in this field). The task is to show the real side of research and applied work in science and to demonstrate to graduate students the standards of thinking of a professional in their chosen specialization.
Independent work	Reading recommended literature (mandatory and additional), preparation for oral presentations, preparation for written tests (midterm, final tests), homework, writing essays, essays, as well as other types of work necessary to complete the curriculum

#### Conditions and criteria for giving marks

Postgraduate students are required to attend seminars, participate in certification tests, and complete teacher assignments. Particularly, the professor going to appreciate the active work at the seminar (the ability to lead a discussion, a creative approach to the analysis of materials, the ability to clearly and succinctly formulate one's thoughts), as well as the quality of preparation of tests (tests) and reports.

Grades for the discipline taught are based on the results demonstrated by graduate students throughout the semester. The final grade is determined by the sum of points received by graduate students for various types of work during the entire period of study provided for in the curriculum.

All types of educational work are carried out exactly on time, provided by the training program. If a graduate student, without good reason, did not complete any of the study assignments (missed the test, passed the essay later than the due date, etc.), then for this type of educational work, he will not be awarded points, and those prepared later than the due date is not evaluated.

#### Matching scores and ratings

Scores of BRS	traditional assessments of the Russian federation	ECTS ratings
95 – 100	Excellent – 5	A (5+)
86 – 94		B (5)
69 – 85	Good – 4	C (4)
61 – 68	Satisfactory – 3	D (3+)
51 – 60		E (3)
31 – 50	Unsatisfactory – 2	FX (2+)
0 – 30		F (2)
51 - 100	Test	Passed

## **Description of indicators, criteria, and scale of competence assessment**

- The rating is unsatisfactory in the form F (2); FX (2+).
- The F (2) score is given if the student scored less than 30 points, and the FX (2+) score is 31-50 points. The FX score (2+) makes it possible to retake the exam or test.
- A satisfactory rating is given in the form E (3); D (3+). An E (3) score is given if the student has scored between 51 and 60 points. D rating(3+) – subject to the availability of 61-68 points.
- A good grade is given in form C (4), provided that the student scored 69-85 points. The score is excellent in the form B (5); A (5+). A B (5) grade is given if the student has scored 86-94 points and indicates that all the required conditions for completing the course have been met. The grade A (5+) - 95-100 points is given not only if all the requirements are met, but also with the obligatory manifestation of a creative attitude to the subject, the ability to find original answers that are not contained in textbooks, the ability to work with sources that are contained in the additional literature for the course, the ability to combine the knowledge gained in this course with the knowledge of other disciplines.

## **12. Fund of assessment tools for intermediate certification of students in the discipline**

Materials for assessing the level of mastering the educational material of the discipline "Research methodology " (assessment materials), including a list of competencies indicating the stages of their formation, description of indicators and criteria for assessing competencies at various stages of their formation, description of assessment scales, standard control tasks or other materials necessary for assessing knowledge, skills, skills and (or) experience of activity, characterizing the stages of the formation of competencies in the process of mastering the educational program, methodological materials that determine the procedures for assessing knowledge, skills, skills and (or) experience of activities that characterize the stages of formation of competencies, developed in full and available for students on the discipline page at TUIS RUDN.

The program has been drawn up in accordance with the requirements of the OS VO RUDN

### **Developers:**

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### **Program manager**

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