

Документ подписан президентом Российской Федерации  
Информация о владельце:  
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Должность: Ректор  
Дата подписания: 26.05.2025 11:43:16  
Уникальный программный ключ:  
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education**  
**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA**  
**NAMED AFTER PATRICE LUMUMBA**  
**RUDN University**

**Academy Of Engineering**

(educational division (faculty/institute/academy) as program developer)

**Department of Innovation Management in Industries**

(department realizing the PhD program)

**SCIENTIFIC RESEARCH PLAN**

Scientific specialty:

**5.2.2. Mathematical, statistical and instrumental methods in economics**

(scientific specialty code and title)

The course instruction is implemented within the PhD programs:

**Mathematical, statistical and instrumental methods in economics**

(PhD program title)

## 1. DISCIPLINE (MODULE) GOAL

The purpose of scientific research (scientific activity) is to prepare for the defense of a dissertation for the degree of candidate of sciences (hereinafter referred to as the dissertation).

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The result of scientific research is the solution of a scientific problem that is important for the development of the relevant branch of science, or the development of a new scientifically based technical, technological or other solution that is essential for the development of the country.

Preparation of a dissertation for defense includes the implementation of an individual plan of scientific activity, writing, design and submission of a dissertation for final certification.

The plan of scientific activity includes an approximate plan for the implementation of scientific research, a plan for the preparation of a dissertation and publications, which set out the main scientific results of the dissertation, as well as a list of stages for mastering the scientific component of the postgraduate program, the distribution of these stages and the final certification of postgraduate students.

The plan of scientific activity of a particular postgraduate student is approved in the individual plan of scientific activity of the postgraduate student, the requirements for which are established by the relevant local regulatory act of RUDN University.

## 3. SWORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

Labour input of the scientific research is 150 credits (5,400 academic hours).

## 4. RESEARCH CONTENTS\*

Stages	Stage content (types of activities)	Labour input, acad. hours
<b>First year</b>		
Research activity aimed at preparing for a thesis defense	Discussion with the supervisor of the concept of dissertation research and topics of the dissertation	1 476
	Performing a bibliographic review in order to determine the degree of development of the thesis topic	
	Defining the purpose of the dissertation research and setting tasks aimed at achieving it	
	Selection of methods and methodology of dissertation research	
	Defining the structure and drawing up a dissertation research plan	
	The beginning of the dissertation research, processing and registration of the results obtained, their discussion at scientific seminars and conferences	
Publication Activity**	Discussion and selection of scientific publications with the supervisor for publication of the results of the dissertation research	216
	Preparation of scientific articles on the results of dissertation research and submission of applications for their publication in selected scientific publications	
	Preparation and submission of applications for state registration of intellectual property results (RID) obtained during dissertation research (inventions, utility models, industrial designs, breeding achievements, computer programs, databases, topologies of integrated circuits)	
Intermediate certification	Preparation of the report on the results of the dissertation research in the first half of the year and its presentation at the meeting of the department	72
	Preparation of the report on the results of the dissertation research in the second half of the year and its presentation at the meeting of the department	
<b>Total labor intensity in the 1st year:</b>		<b>1 764</b>
<b>Second year</b>		
Research activity aimed at preparing for	Conducting dissertation research in accordance with the plan agreed upon with the supervisor, processing and processing the results obtained, and discussing them at scientific seminars and conferences	1 404

a thesis defense		
Publication Activity**	Preparation and submission of applications for the publication of scientific articles on the results of dissertation research	216
	Preparation and submission of applications for state registration of intellectual property results (RID) obtained during dissertation research (inventions, utility models, industrial designs, breeding achievements, computer programs, databases, topologies of integrated circuits)	
Intermediate certification	Preparation of the report on the results of the dissertation research in the first half of the year and its presentation at the meeting of the department	72
	Preparation of the report on the results of the dissertation research in the second half of the year and its presentation at the meeting of the department	
<b>Total labor intensity in the 2nd year:</b>		<b>1 692</b>
<b>Third year</b>		
Research activity aimed at preparing for a thesis defense	Completion of the dissertation research, processing and registration of the obtained results, their discussion at scientific seminars and conferences	1 656
	Preparation of the dissertation and the abstract of the dissertation in accordance with the requirements of ГОСТ Р 7.0.11-2011	
Publication Activity**	Preparation and submission of applications for the publication of scientific articles on the results of dissertation research	216
	Preparation and submission of applications for state registration of intellectual property results (RID) obtained during dissertation research (inventions, utility models, industrial designs, breeding achievements, computer programs, databases, topologies of integrated circuits)	
Intermediate certification	Preparation of the report on the results of the dissertation research in the first half of the year and its presentation at the meeting of the department	72
	Preparation of the report on the results of the dissertation research in the second half of the year and its presentation at the meeting of the department	
<b>Total labor intensity in the 3rd year:</b>		<b>1 944</b>
<b>Total academic hours of scientific research:</b>		<b>5 400</b>

\* The Higher Attestation Commission under the Ministry of Education and Science of the Russian Federation (HAC) establishes criteria for publications that outline the main results of the dissertation – the minimum number of publications and the level (categories) of scientific publications. The criteria can be clarified by an organization that has been granted the right to independently award academic degrees. For dissertation councils established on the basis of RUDN University, the criteria for such publications and equivalent RIDs are established by the Regulations on Awarding Academic Degrees at RUDN University ([https://www.rudn.ru/userfiles/files/№132%20от%2029\\_02\\_2024%20О%20введении%20в%20действие%20локальных%20нормативных%20актов%20по%20вопросу%20самостоятельн\\_%20О\\_А\\_%20Ястребов%20\(1\)%20\(1\).pdf](https://www.rudn.ru/userfiles/files/№132%20от%2029_02_2024%20О%20введении%20в%20действие%20локальных%20нормативных%20актов%20по%20вопросу%20самостоятельн_%20О_А_%20Ястребов%20(1)%20(1).pdf))

## 5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The place of scientific research shall comply with the current sanitary and epidemiological requirements, fire safety regulations and standards of health protection of the students.

The research plan requires classrooms that meet the safety requirements for academic work, if necessary, a computer room with workstations that provide Internet connection, as well as classrooms with multimedia equipment.

## 6. INTERNSHIP LOCATION AND TIMELINE

Scientific research can be carried out both in structural subdivisions of RUDN University or in organizations of Moscow (stationary), and at bases located outside of Moscow (exit).

Conducting scientific research on the basis of an external organization (outside RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions for performing scientific research in the base organization. The deadlines for the implementation of scientific research correspond to the period indicated in the calendar academic schedule of the postgraduate program.

Practice dates can be adjusted in coordination with the Department of Doctoral Studies of the RUDN University

## 7. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF SCIENTIFIC RESEARCH

*Regulatory documents regulating the process of preparation and defense of dissertations:*

1) Federal Law of August 23, 1996 No. 127-FZ «On Science and State Scientific and Technical Policy» URL: <http://pravo.gov.ru/proxy/ips/?docbody=&nd=102043112>

2) Decree of the Government of the Russian Federation dated September 24, 2013 No. 842 «On the procedure for awarding academic degrees» URL: <http://pravo.gov.ru/proxy/ips/?docbody=&nd=102167993>

3) ГОСТ Р 7.0.11-2011 Система стандартов по информации, библиотечному и издательскому делу. Диссертация и автореферат диссертации. Структура и правила оформления. (System of standards for information, library and publishing. Dissertation and dissertation abstract. Structure and design rules) / М.: Стандартинформ, 2012. 11 pages.

*Internet sources:*

Electronic Library Systems (ELS) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- ELS of RUDN University <http://lib.rudn.ru/MegaPro/Web>;
- ELS University Library Online <http://www.biblioclub.ru>;
- EBS Urayt <http://www.biblio-online.ru>;
- ELS Student Consultant <http://www.studentlibrary.ru>;
- EBS Lan <http://e.lanbook.com>;
- EBS Trinity Bridge <http://www.trmost.ru>.

Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search system <https://www.yandex.ru/>
- Google search system <https://www.google.ru/>
- Scopus reference database <http://www.elsevierscience.ru/products/scopus/>

*Educational and methodological materials for scientific research:*

Guidelines for preparing dissertations and scientific publications.

## 8. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR EVALUATION OF PHD STUDENTS' COMPETENCES LEVELS AS SCIENTIFIC RESEARCH RESULTS

The current monitoring of the postgraduate student's scientific activities is carried out by the supervisor during the current, at least weekly, interaction with the graduate student and assessment of the progress of his individual scientific activity plan.

The intermediate certification of a graduate student based on the results of scientific activity is carried out at the end of each half-year (semester). Before passing the intermediate certification, the graduate student submits to the supervisor a written report containing the following information:

- about the degree of readiness of the dissertation;
- on the publication of the main scientific results of the dissertation research in peer-reviewed scientific publications included in the list of the Higher Attestation Commission, the RUDN University list, the RSCI, Scopus, Web of Science databases, and in other journals recommended by the RUDN University Academic Council for the publication of the main scientific results of dissertations for the degree of Candidate of Sciences;
- about participation in scientific and technical events on the topic of the dissertation;
- about participation in the research work of the department;
- about other results aimed at preparing the dissertation for defense.

The interim certification is conducted at a meeting of the department, at which the postgraduate student's report on scientific activities over the past period and the supervisor's review of the quality, timeliness and success of the postgraduate student's scientific activities are heard.

According to the results of the interim assessment, the graduate student is rated "excellent", "good", "satisfactory" or "unsatisfactory" and is rated in the ESTS system (A, B, C, D or E) in accordance with the RUDN University point rating system.

**DEVELOPER:**

Head of Department of Innovation Management  
in Industries  
\_\_\_\_\_  
position, educational department

  
\_\_\_\_\_  
signature

O.E. Samusenko  
\_\_\_\_\_  
name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**

Head of Department of Innovation Management  
in Industries  
\_\_\_\_\_  
educational department

  
\_\_\_\_\_  
signature

O.E. Samusenko  
\_\_\_\_\_  
name and surname