Федеральное государственное автономное образовательное учреждение высшего образования
«Российский университет дружбы народов имени Патриса Лумумбы»

Инженерная академия
(наименование основного учебного подразделения (ОУП) – разработчика программы)

Утверждена на заседании
ученого совета ОУП
протокол от 02 марта 2026 г.
№ 2022-08/07

ПРОГРАММА ПОДГОТОВКИ НАУЧНЫХ И НАУЧНО-ПЕДАГОГИЧЕСКИХ КАДРОВ В АСПИРАНТУРЕ

Научная специальность:
5.2.2. Математические, статистические и инструментальные методы в экономике
(шифр и наименование научной специальности)

Направленность (профиль):
Mathematical, Statistical and Instrumental Methods in Economics / Математические, статистические и инструментальные методы в экономике (англ.)
(наименование программы подготовки научных и научно-педагогических кадров в аспирантуре)

Программа подготовки научных и научно-педагогических кадров в аспирантуре разработана в соответствии с требованиями:
СУТ РУДН, утвержденных приказом ректора от 09 марта 2022 г. № 139

Срок освоения программы подготовки научных и научно-педагогических кадров в аспирантуре:
3 года
(очная форма обучения)

Сведения об особенностях реализации программы: реализуется на английском языке.

СОГЛАСОВАНО:

Руководитель программы
Буркова И. В.
(подпись)

Руководитель ОУП
Разумный Ю. Н.
(подпись)

Начальник УОП
Воробьева А. А.
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Начальник ДАД
Борисова А. С.
(подпись)

2026 г.

1. EDUCATIONAL PROGRAMME GOAL

The goal of the postgraduate program is to prepare and defend a dissertation for the degree of Candidate of Sciences in the scientific specialty *5.2.2. Mathematical, statistical and instrumental methods in economics*.

2. BRIEF SUMMARY OF THE PROGRAMME

The program prepares scientific and scientific-pedagogical personnel.

Researchers who are specialists in this scientific specialty are engaged in the study and development of the theory and practical application of mathematical, statistical and instrumental methods in economics, optimization of business processes, development of economic models using modern tools for big data analysis, statistical calculations and computer modeling.

Scientific and pedagogical workers, along with scientific (research) work, are engaged in pedagogical activities - they transfer their knowledge and experience obtained in this scientific specialty to students and postgraduates of higher educational institutions.

The program includes a scientific component, an educational component, and a final certification.

The scientific component of the program includes:

– scientific activity aimed at the preparation of a dissertation for the degree of Candidate of Sciences;

– preparation of publications that set forth the main scientific results of the dissertation, and (or) applications for patents/certificates for inventions, utility models, computer programs, databases and other results of intellectual activity.

– intermediate attestation at the stages of scientific research.

The educational component of the program includes:

– study of the disciplines "History and Philosophy of Science", "Special Discipline", "Pedagogy of Higher Education", "Methodology of Scientific Research", "Foreign Language";

– undergoing pedagogical practice;

– intermediate certification in disciplines and practice.

Final attestation is carried out in the form of an assessment of the prepared dissertation for its compliance with the established criteria.

3. LABOR MARKET NEEDS FOR PERSONAL TRAINING IN EDUCATIONAL PROGRAMME PROFILE

The training of specialists with a scientific specialty *5.2.2. Mathematical, statistical and instrumental methods in economics* is one of the important conditions for increasing the potential and competitiveness of educational institutions of higher education, research organizations and industrial enterprises.

Graduate students who have completed the program are in high demand in Russian and international manufacturing and operating organizations, research structures, and higher education institutions.

4. REQUIREMENTS FOR APPLICANTS APPLYING TO THE POSTGRADUATE PROGRAM

Admission Rules approved by a local regulatory act and publicly available on the official website of the RUDN University apply to admission to the program. A candidate for admission to postgraduate studies must have a diploma of higher education at the "specialty" or "master's degree" level, have training in the field of organizing research work, conducting and processing experimental results, master the basics of the scientific specialty of postgraduate studies, and take a systematic approach to processes and phenomena.

5. STRUCTURE AND WORKLOAD OF THE EDUCATIONAL PROGRAMME FOR PhD STUDIES

The duration of the program is 3 years, the form of the program is full-time, the program volume is 180 credits (one credit unit corresponds to 36 academic hours).

№ п/п	Structure of the PhD Program	Labor intensity in credits
1	Scientific Component	149

2	Educational Component	25
2.1	Disciplines (modules)	19
2.2	Internship	6
3	Final attestation	6
	Postgraduate program workload in credit units:	180

6. CHARACTERISTICS OF EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

A graduate of the program

has the knowledge:

– methods of critical analysis and evaluation of modern scientific achievements, generation of new ideas in solving research and practical problems;

– the specifics of presenting the results of scientific activity in oral and written form;

– problems in the chosen field of scientific activity and the main ways to solve them;

– the main sources and methods of scientific information search.

can:

– to analyze alternative solutions to research and practical problems;

– to use the principles and categories of the philosophy of science to analyze and evaluate various facts and phenomena;

– follow the norms accepted in scientific communication;

– to make personal choices in the process of work, to assess the consequences of the decision and to be responsible for it to yourself, colleagues and society;

– to find the most effective methods of solving problems in the chosen field of scientific activity;

– to analyze, systematize and assimilate the best practices of scientific research.

owns:

– methods of solving research and practical problems, including in interdisciplinary fields;

– methods of analyzing ideological and methodological problems that arise in solving scientific and educational tasks;

– technologies for evaluating the results of collective activity in solving scientific and educational tasks, including in a foreign language;

– technologies for planning scientific activities;

– communication in solving scientific and scientific-educational tasks;

– modern tools and technologies of scientific research activities;

– skills in preparing and implementing a program of theoretical and experimental research.

7. LOCATION OF IMPLEMENTATION OF THE PHD PROGRAMME

The postgraduate program is implemented by the Federal State Autonomous Educational Institution of Higher Education Peoples' Friendship University of Russia named after Patrice Lumumba.

The information about partner organizations involved in the implementation of the postgraduate program:

Internship and Scientific Research	Internship location
Pedagogical Training (stationary)	RUDN University, Moscow
Research activity aimed at preparing for a thesis defense (stationary)	RUDN University, Moscow; Third party organizations performing research and development, depending on the focus of the research

8. FEAUTURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

The postgraduate program is implemented with elements of DET (based on the TUIS platform).

The language of implementation of the postgraduate program is English.

The program is not adapted for teaching the disabled and people with disabilities.