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

Institute of Russian Language

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

Russian Language Department No 2

(department realizing the PhD program)

COURSE SYLLABUS

Methodology of scientific research

(course title)

Scientific specialty:

5.8.7. Methodology and Technology of Vocational Education

(scientific speciality code and title)

The PhD student's internship is implemented within the PhD programmes:

Professional Education: Methodology and Technology

(PhD program title)

1. DISCIPLINE (MODULE) GOAL

The goal of mastering the discipline "Methodology of scientific research" is formation of theoretical knowledge about the essence of modern scientific methods and theoretical concepts of modern science, forming the readiness of graduate students for independent scientific research and participation in educational innovations, development of skills for conducting scientific research in the field of professional education.

2. REQUIREMENTS TO PHD-STUDENTS ON FINISHING THE COURSE

The study of the discipline "Methodology of Scientific Research" is aimed at acquiring knowledge, skills, abilities and experience of conducting scientific research. This includes:

- mastery of the culture of scientific research, the methodology of theoretical and experimental research in the field of professional education;
- ability to professionally present the research results in the form of scientific publications and reports.
- readiness to organize the work of a research team, to lead the scientific research activities of students.

Upon completion of this course, graduate students will have proficiency in the scientific paradigm of modern pedagogical theories, as well as comprehension and critical analysis in the field of professional education. They will get the systematized understanding of the organization of effective scientific research, enabling the production of reliable results for their productive use in educational practice.

Graduate students will know

- the most significant areas and concepts of scientific methodology;
- the fundamentals of the methodology of scientific pedagogical knowledge;
- the basic concepts and models of scientific development;
- the methods of pedagogical research, the methodological principles, structure, and logic of scientific and pedagogical research;
- the requirements for the presentation of scientific research results.

Graduate students will be able to implement scientific methodology in dissertation research in the scientific specialty 5.8.7 – Methodology and Technology of vocational education:

- to define the methodological apparatus of research: the purpose and objectives of the research, formulate the problem, object, subject, and hypothesis of the research;
- to process research results, prepare a scientific text for defense, and defend it.

3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the discipline «**Methodology and methods of scientific research**» is 2 credit units (72 academic hours).

Types of activities		Total ac. hrs.	Semesters
			3
<i>Classroom activities (total), including:</i>			12
Lectures (LC)			12
Laboratory activities (LA)		–	–
Practical lessons/Seminars (PC)			6
<i>Independent work</i>			12
<i>Intermediate certification (test with assessment/exam)</i>		6	6
Overall workload	ac. hrs.		72
	credits		2

4. CONTENT OF THE DISCIPLINE

Name of the discipline section	Contents of the section (topic)	Type of study work
Section 1. Methodology of pedagogical research: basic concepts and general characteristics	Theme 1.1. Methodology of scientific knowledge, levels of methodology. Methodological culture of the researcher. The concept of "pedagogical science methodology".	Seminar lecture
	Theme 1.2. Aspects of the methodology of pedagogy, methodological research. Theoretical foundations and problems of modern pedagogical research.	Seminar lecture
	Theme 1.3. Organization of experimental research work in an educational institution. Methodological principles of pedagogical research.	Seminar lecture
Section 2. Methodological characteristics of pedagogical research	Theme 2.1. Methodological characteristics of scientific research: problem, topic, relevance, object of research, goal, tasks, hypothesis and provisions for the defense, novelty, significance for science and practice. Idea, plan and hypothesis as the theoretical core of research.	Seminar lecture
	Theme 2.2. Terminology of pedagogical research.	Seminar lecture
	Theme 2.3. Criteria for the success of a research search. Monitoring of the research process and results.	Seminar lecture
Section 3. The logic of pedagogical research	Theme 3.1. The logic of pedagogical research. Purpose, means and result of research, its logical structure. Empirical description. Theoretical description.	Seminar lecture
	Theme 3.2. The main provisions and principles of establishing the truth of the judgment in scientific research. Evidence in the context of scientific research and the basis of the theory of argumentation. Basics of verification of scientific hypotheses, models, scientific theories.	Seminar lecture
Section 4. Methods and techniques of pedagogical research	Theme 4.1. The essence of "method" and "methodology", the classification of the main research methods of research. Principles of choosing methods and techniques of pedagogical research. Methods of empirical pedagogical research. Observation method. Questionnaire methods of research. Testing. Hermeneutic methods in pedagogy.	Seminar lecture
	Theme 4.2. Pedagogical experiment. Establishing and forming experiments. Application of statistical methods and means of formalization in pedagogical research.	Seminar lecture
Section 5. General provisions and qualification	Theme 5.1. Main characteristics of dissertation research. Scientific apparatus. Quality assessment of dissertation studies. Efficiency evaluation criteria.	Seminar lecture

component of the dissertation	Theme 5.2. Work with scientific literature. Preparation of reports, basic forms of publications and requirements for them.	Seminar lecture
	Theme 5.3. Basic requirements for the dissertation text and its abstract. Dissertation defense procedure.	Seminar lecture

5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline
Lecture Hall	An audience equipped with specialized furniture, a board (screen), and multimedia presentation equipment is required for conducting lecture-type classes.	projector, computer
Class for Seminars	Room for seminar-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets	projector, computer
Self-Work Class	Room for self-working (can be used for lecture and seminars activities), equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets and computers with an access to EIPES	Not necessary

6. METHODOLOGICAL SUPPORT AND LEARNING MATERIALS

Main readings:

1. Иванова, Т.Б. Methodology of Scientific Research = Методология научного исследования : education and Methodical Complex / Т.Б. Иванова. – М. : PFUR, 2013. – 117 p. - ISBN 978-5-209-05048-3 : 167.79. URL: https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=404340&idb=0

2. Капралова, Д.О. Методология научного творчества = Methodology of Scientific Research : учебно-методическое пособие / Д. О. Капралова. - М. : РУДН, 2018. - 60 с. - ISBN 978-5-209-08837-0 : 106.80. URL: https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=470891&idb=0

3. Смирнова, Н. В. Научная публикация: методика и стратегии создания текста: английский язык : Учебник и практикум для академического бакалавриата, магистратуры и аспирантуры / Н. В. Смирнова, И. В. Нужа. – Санкт-Петербург : Прогресс книга, 2023. – 189 с. – ISBN 978-5-4461-2313-1. – EDN EIGAWN.

4. Волков, Ю.Г. Диссертация: подготовка, защита, оформление (для аспирантов) / Ю.Г. Волков. – М.: КноРус, 2015. – 207 с.

5. ГОСТ Р 7.1.11 – 2011. Диссертация и автореферат диссертации. Структура и правила оформления.

Additional readings:

1. Добренев, В.И. Методология и методы научной работы [Электронный ресурс] : Учебное пособие для вузов / В.И. Добренев, Н.Г. Осипова. – М. : КДУ, 2009. – ISBN 978-5-98227-614-8. – URL: <http://lib.rudn.ru/ProtectedView/Book/ViewBook/2245>

2. Афанасьев, В.Н. Статистическая методология в научных исследованиях

[Электронный ресурс] : учебное пособие / В.Н. Афанасьев, Н.С. Еремеева, Т.В. Лебедева. — Оренбург : ОГУ, 2017. — 245 с. URL: <https://e.lanbook.com/book/110604>

3. Лапаева М. Г. Методология научных исследований: учебное пособие для аспирантов [электронный ресурс] / М. Г. Лапаева, С. П. Лапаев. — Оренбург: ОГУ, 2017. — 249 с. — ISBN 978-5-7410-1791-3 URL: <http://biblioclub.ru/index.php?page=book&id=485476>

4. Левкина, А.О. Компьютерные технологии в научно-исследовательской деятельности: учебное пособие для студентов и аспирантов социально-гуманитарного профиля / А.О. Левкина [электронный ресурс]. — Москва ; Берлин : Директ-Медиа, 2018. — URL: [119http://biblioclub.ru/index.php?page=book&id=496112](http://biblioclub.ru/index.php?page=book&id=496112)

5. Попов А. И. Педагогические научные исследования аспирантов: учебное пособие / А. И. Попов [электронный ресурс]. — Тамбов : Издательство ФГБОУ ВПО «ТГТУ», 2017. — 80 с. — ISBN 978-5-8265-1819-9. URL: <http://biblioclub.ru/index.php?page=book&id=499409>

6. Черникова, О. П. Научные исследования в профессиональной деятельности : учебное пособие [электронный ресурс]/ О. П. Черникова. — Новокузнецк : Сибирский государственный индустриальный университет, 2023. — 236 с. — URL: <https://biblioclub.ru/index.php?page=book&id=701008>. — ISBN 978-5-7806-0615-4.

Internet sources:

ELS RUDN University and third party EBS, to which university students have access based signed contracts:

RUDN Electronic Library System, <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 fund of legal and normative-technical documentation, <http://docs.cntd.ru> ;

Yandex search system [https:// www .yandex.ru](https://www.yandex.ru) ;

Google search system <https://www.google.com> ;

Reference database Scopus , <http://www.elsevierscience.ru/products/scopus>

Educational and methodological materials for students' self-work (independent work) studying the discipline / module:

A course of lectures on the discipline «Methodology and methods of scientific research».

7. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR MIDTERM ATTESTATION OF STUDENTS IN THE DISCIPLINE (MODULE)

Assessment toolkit and a grading system to evaluate the level of competences (competences in part) formation as the course results are specified on the TUIS platform.

DEVELOPERS:

Head of Russian Language Department No2

PhD, Associate Professor

M.N. Kunovski

HEAD OF THE DEPARTMENT

Director of Institute of Russian Language

N.V. Pomortseva