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**Federal State Autonomous Educational Institution  
for Higher Education PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
(RUDN University)**

**Institute of foreign languages**

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(name of the general training subunit (GTS)- developer of the post-graduate program)

**Department of Foreign Languages in Theory and Practice**

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(name of the basic training subunit (BTS)- developer of the post-graduate program)

## **COURSE WORK PLAN**

**Methodology of scientific research**

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(name of course/module)

**Scientific specialisation:**

5.8.2. Theory and methodology of training and education (by fields and education levels)

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(code and name of scientific specialization)

**This course is taught within the frame of PhD program:**

Theory and methodology of training and education (foreign languages):  
intralinguodidactics, intercultural communication

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(name of PhD program)

**2022.**

## 1. OBJECTIVES OF THE COURSE

The course "Methodology of scientific research" is aimed at preparation of PhD students for candidacy examinations and mastery of logical knowledge basics necessary for conducting scientific research, theoretical and experimental methods in the design and development of new technologies, skills and abilities necessary for independent scientific research in the field of pedagogy, application of knowledge of modern research methods in scientific and methodological and educational work.

Course objectives:

- study the main fundamental and applied problems in the field of scientific research methodology;
- gain experience in working in a scientific team, develop the ability to generate new ideas (creativity);
- gain skills in collecting, analyzing and systematizing information on the research topic, preparation of scientific and technical reports, reviewal of publications on the research topic;
- gain skills in presentation of the results of the work performed;
- application of modern research methods, formulation of problems and their solution.

## 2. LEARNING OUTCOMES REQUIREMENTS

The course "Methodology of scientific research" is aimed at preparation of PhD students for candidacy examinations, as well as forming the theoretical and methodological basis necessary for the scientific, pedagogical and other professional activities of a PhD student during the first year of their studies. In addition, the development of the discipline is aimed at preparation for the final state exam and the defense of the final qualification paper.

## 3. VOLUME OF THE COURSE AND TYPES OF TRAINING ACTIVITY

Total workload of the course 144 academic hours (4 credits)

*Table 3.1. Types of training activity by stages of PhD program*

Type of training activity	TOTAL, academic hours	Year		
		1	2	3
<i>Classroom learning, academic hours</i>	72	36		
including:				
Lectures (L)	36	18		
Seminars/workshops (S)	36	18		
<i>Self-study, academic hours</i>	72	36		
<i>Assessment (graded pass), academic hours</i>	72	72		
<b>Total workload of the course</b>	Academic hours	<b>144</b>		
	credits	<b>4</b>		

#### 4. CONTENT OF THE COURSE

*Table 45.1. Content of the course (module) by type of training activity*

Name of the course block	Content of the block (topics)	Type of training activity
<p>Block 1. Definition of objectives of scientific research. Special aspects of modern scientific areas.</p>	<p>Purpose, method and objectives of the course. Structure and tasks of the course. Forms of mid-term and final assessment of the course. Meaning and essence of scientific research. The concept of science. The origin of science. Stages of science development. Emergence of the social and humanitarian sciences. Disciplinary organization of science. Education and pedagogical sciences. Interdisciplinary and applied research. Main modern scientific schools in the field of education and pedagogical sciences in Russia and abroad. Education and pedagogical sciences and interdisciplinary scientific areas. Modeling, forecasting, conceptualization. Statistical and empirical research, scientific experiment. Types and methods of obtaining research data. Integration and use of ICT, various Internet resources in modern scientific research. Recommended Internet resources on the topic. Methodological bases for determination of the level of science in different countries of the world and in the Russian Federation. Organization of science in the Russian Federation. Historiography of modern scientific schools and areas in the Russian Federation. Largest Russian scientific publishing houses and journals for publishing the results of scientific research, basic requirements for publications. Russian citation indexes. Copyright and intellectual law and anti-plagiarism system. Ethics of behavior and ethical norms of scientific publications. Largest professional associations of scientists in the field of education and pedagogical sciences in Russia. Annual conferences and seminars for the exchange of scientific information and research results testing. Practical recommendations.</p>	<p>L, S</p>
<p>Block 2. Methodology and methods of scientific research</p>	<p>Classification, conceptualization and typology of scientific research methods Concept, objectives and subject of "methodology", "method" and "techniques" of scientific research. Main function of the method. F. Bacon on the method.</p>	<p>L, S</p>

Name of the course block	Content of the block (topics)	Type of training activity
	<p>Methodology as a general theory of method. Essence of research methodology. Sameness and otherness of theory and method. Principles and problems of research. Development of hypothesis and research concept. Procedural and methodological research schemes. Structure of methodology. "Scheme of the structure of methodology": characteristics, norms and time structure of activity. Classification of sciences proposed by V.S. Lednev. Classification of research methods. Philosophical and general scientific research methods. Specific scientific, disciplinary and interdisciplinary methods. Scientific methods of knowledge and theoretical research. Forms of presentation of the results of scientific research. Stages of organization of the research process: design, technological and reflexive. Basic scientific methods adopted in the field of education and pedagogical sciences.</p>	
<p>Block 3. Basic methods of search and processing of information for scientific research</p>	<p>The concept of the information source for scientific research, types of information and its classification. Documentary sources of information. Organization of reference information activities. Methods of work with catalogues, libraries, archives, electronic catalogues and databases, Internet websites of Russian and foreign origin. Stages of scientific research planning. Analytical, systematic and critical selection of data. Criteria of sufficiency of the amount of information for the study. Techniques of information collection and processing, complex statistical analysis and information sampling. Technique of working with different types of information: text and hypertext, audio-visual, graphic, etc. for scientific research. Methods and techniques for speed reading, scanning large amounts of information, methods of citation, taking notes and summarizing, templates for compiling abstracts and annotations, scientific articles and analytical reviews based on the studied information.</p> <p>The concept of scientific discourse, typology and characteristics of scientific texts in different</p>	

Name of the course block	Content of the block (topics)	Type of training activity
	<p>scientific genres based on the examples from English and Russian languages.</p> <p>Presentation of a scientific researches at an international professional conference, preparation and presentation of a report, preparation of theses for publication and articles for conferences. Practical recommendations.</p>	
<p>Block 4. Methods of work on the research manuscript, special aspects of design</p>	<p>Comprehension and formulation of the topic of scientific research. Composition of a scientific work. Methods of presentation of scientific materials. Manuscript work. Language and style of presentation. Dissertation as a scientific qualifying paper. History of the development of the procedure of preparation, design and defense of a dissertation in Russia. Existing standards for the design and content of the text of the dissertation and abstract in the Russian Federation. Examples and templates of abstracts and dissertations in the field of education and pedagogical sciences.</p> <p>Individual and collective scientific research. Sources of research funding.</p> <p>Requirements for scientific qualifying paper. Orientation in research and scientific-pedagogical activity at the university. Reflection of the development of general cultural and professional competences. Preparation of the research schedule. Main stages: collection, analysis, structuring of theoretical and practical material, writing of the text. Structure of the final qualifying paper and main elements of the introduction. Research methods. Characteristics of the chapters of the final qualifying paper. Ways of writing and presentation of scientific report for the dissertation defense.</p> <p>Administrative regulation of the dissertation defense procedure and documentation. Organization of the dissertation defense at the university, stages of organization and requirements for defense procedure. RUDN Department of Postgraduate Studies, Graduating Department of PhD student and RUDN Academic Council. HAC.</p>	<p>L, S</p>
<p>Block 5. Modern methodology of scientific research and requirements for</p>	<p>Modern international organizations in the field of scientific research. Priorities in the field of scientific research. Actual trends in humanitarian sciences, education and</p>	<p>L, S</p>

Name of the course block	Content of the block (topics)	Type of training activity
scientific publications in Western Europe and the USA.	pedagogical sciences research. New areas in pedagogy of foreign languages teaching in the largest universities of the USA and Western Europe. Administration and publication of research results, rules admission to PhD programs, publication requirements. Difference between scientific degrees in Russia and the USA. Requirements for participation in international conferences and publications in Western scientific journals. Main genres of English-language scientific texts. Requirements for the publications of articles and books in English on the Internet based on the examples of largest Western publishing houses. Rankings of largest universities, international citation indexes necessary for acceptance of dissertation for the defense. Leading universities of the USA and Western Europe in the field of education and pedagogy, main international professional and scientific communities in the field of education, pedagogy and innovative pedagogy. Practical recommendations	

## 5. INFRASTRUCTURE AND TECHNOLOGY SUPPORT OF THE COURSE

*Table 6.1. Infrastructure and technology support of the course*

Type of classroom	Classroom infrastructure	Specialized learning/laboratory equipment, software and materials (on demand)
Lecture classroom	A classroom for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means for multimedia presentations.	Microsoft (OC, office suite) Subscription to Enrollment for Education Solutions (EES) No 56278518 of 23.04.2019
Seminar classroom	A classroom for seminar-type classes, group and individual sessions, current and mid-term assessment equipped with a set of specialized furniture and technical means for multimedia presentations.	Microsoft (OC, office suite) Subscription to Enrollment for Education Solutions (EES) No 56278518 of 23.04.2019
Computer classroom	A computer class for classes, group and individual sessions, current and mid-term assessment, equipped with a personal	Microsoft (OC, office suite) Subscription to Enrollment

<b>Type of classroom</b>	<b>Classroom infrastructure</b>	<b>Specialized learning/laboratory equipment, software and materials (on demand)</b>
	computers (_____ units), a board (screen) and technical means of multimedia presentations.	for Education Solutions (EES) No 56278518 of 23.04.2019
Self-study classroom	A classroom for self-study (also can be used for seminars and tutorials), equipped with a set of specialized furniture and computers with access to the EILS.	Microsoft (OC, office suite) Subscription to Enrollment for Education Solutions (EES) No 56278518 of 23.04.2019

\* - a classroom for self-study must to be indicated!

## **6. LEARNING, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE COURSE**

### *Bibliography:*

1. Burda A.G. Fundamentals of research activity. Study guide. Krasnodar, 2015.
2. Vasilyuk F.E., Zinchenko V.P. et al. Methodology of psychology: problems and prospects. Textbook /ed. Zinchenko V.P. – St. Petersburg: Center for Humanitarian Initiatives, 2012.
3. Ivanova T.B. Methodology of scientific research: educational and methodological complex. - M.: Publishing House of RUDN, 2013.
4. Krasina E.A. Innovative principles of linguistic methodology. Textbook. – M.: RUDN Publishing House, 2012.
5. Manukhina S.Yu. Methodological foundations of psychology. – M.: Eurasian Open Institute, 2011.
6. Moskvichev Yu.N. Methodology of scientific research: an educational and methodological guide for graduate students and applicants. – Electronic text data. – Volgograd: VGAFK, 2013.
7. Scientific works: Methods of preparation and registration / Author-comp. I.N.Kuznetsov. – Minsk: Amalfea, 2000.
8. Novikov A.M., Novikov D.A. Methodology of scientific research. – M., 2010.
9. Ruzavin G.I. Methodology of scientific cognition: textbook for universities. – M.: UNITY-DANA, 2013.
- 10.

### *Additional bibliography:*

1. The main methods of data collection in psychology. Textbook /ed. Kapustina S.A. – M.: Aspect Press, 2012.

2. Petrov M.K. Philosophical problems of "Science of science". The subject of sociology of science. – M.: Russian Political Encyclopedia, 2006.
3. Smirnov S.D. Pedagogy and psychology of higher education: from activity to personality: a textbook for universities. – Electronic text data. – M.: Academy, 2010.

*Resourses of the information and telecommunication network Internet:*

1. RUDN ELS and side ELS with open access for RUDN students on the basis of signed agreements:

- RUDN Electronic library system – RUDN ELS <http://lib.rudn.ru/MegaPro/Web>
- ELS “University library online” <http://www.biblioclub.ru>
- ELS Urait <http://www.biblio-online.ru>
- ELS “Student’s consultant” [www.studentlibrary.ru](http://www.studentlibrary.ru)
- ELS “Lan” <http://e.lanbook.com/>
- ELS “Troitsky bridge”
- ELS “National digital resourse “RUCONT”
- IQlib <http://www.iqlib.ru>
- SEL Elibrary <http://elibrary.ru>

2. Databases and search systems:

- electronic fund of legislative and regulatory 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/>
- Academic Search Ultimate (EBSCO) database <https://www.ebsco.com/products/research-databases/academic-search-ultimate>
- Web of Science Core Collection database <https://clarivate.com/webofsciencegroup/solutions/web-of-science-core-collection/>

*Methodological materials for self-study for the course/module\*:*

1. Lecture course “Methodology of scientific research”.

\* - all methodological materials for self-study must be located according to effective instruction on the course page in RUDN TLIS!

## **7. ASSESSMENT MATERIALS AND GRADING SYSTEM FOR EVALUATION OF COURSE COMPETENCES MASTERY**

Assessment materials and grading system for evaluation of course competences mastery are described in Annex to the present Course work program.

\* - AM and GS are formed based on the corresponding RUDN local regulatory document.

**DEVELOPERS:**



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Position, BTS



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