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

Law Institute

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

Department of Foreign Languages

(educational department as higher education program developer)

COURSE SYLLABUS

Methodology of Scientific Research

course title

Research Speciality

5.8.2. Theory and Methodology of Training and Education
(by fields and levels of education)

field of studies / speciality code and title

The course instruction is implemented within the PhD programme of higher education:

Training Foreign Language, Translation and Interpreting Skills for Specific Purposes
within Digitalization

higher education programme profile/specialisation title

Moscow
2024

1. COURSE GOALS

The purpose of mastering the discipline *Methodology of Scientific Research* is to form students' comprehensive understanding of the approaches, content, means and methods of conducting scientific and pedagogical research on the problems of the PhD program.

2. REQUIREMENTS FOR LEARNING OUTCOMES

According to the results of mastering the course, PhD students are expected to be able

- to critically analyze and evaluate modern scientific achievements, generate new ideas in solving research and practical problems in interdisciplinary fields
- to design and carry out comprehensive interdisciplinary research, based on a holistic systemic scientific worldview through use of knowledge in the field of history and philosophy of science
- to master methodology and methods for pedagogical research
- to master culture of scientific research in the field of pedagogical sciences, including the use of information and communication technologies
- to interpret the results of pedagogical research, assess the boundaries of their applicability, assess potential risks of their implementation in educational and sociocultural environment, define prospects for further research
- to model, implement and evaluate the educational process and design continuing professional education programs in accordance with the employers' needs.

3. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The course total workload is equal to 2 credits (72 academic hours, including

Table 3.1. Course workload and academic activities

Academic Activities		Total academic hours	Semesters/modules			
			1	2	3	4
Contact hours		18	18			
Including						
Lectures (LC)		12	12			
Lab work (LW)						
Tutorials/seminars (SM)		6	6			
Self-study, ac., hrs.		18	18			
Course total workload	36	36				
	1	1	2			

4. СОДЕРЖАНИЕ ДИСЦИПЛИНЫ/МОДУЛЯ

Table 4.1. Course content and academic activities

Course module title	Course module contents (topics)	Academic activities types
Module 1. Methodological foundations of scientific knowledge.	1.1. Science and other forms of mastering reality 1.2. The social functions of science 1.3. The main stages of science development 1.4. The concept of scientific knowledge 1.5. Methods of scientific knowledge.	LC, SM
Module 2. Research design	2.1. Research goals. 2.2.Statement of research problem/questions/hypothesis 2.3. Research Methodology.	LC, SM

	Stages of Research 2.4. The relevance and scientific novelty of research	
Module 3 Search, accumulation and processing of scientific information	3.1 Documentary sources of information 3.2. Document Analysis 3.3. Search and accumulation of scientific information 3.4. Electronic information resources 3.5. Processing, fixation and storage of scientific information	LC, SM
Module 4. Theoretical and experimental research	4.1. Methods and features of theoretical research 4.2. The structure and models of theoretical research 4.3. General information about experimental studies 4.4. Experiment Technique and Planning 4.5. Metrological support of experimental studies	LC, SM
Module 5. Processing experimental studies results	5.1. Statistics in Research 5.2. Key terms 5.3. Types of analysis 5.4. Digital tools	LC, SM
Module 6. Formats and structure of scientific research presentations: scientific articles and dissertation	6.1. The structure of a scientific article (IMRAD). 6.2. The structure of the dissertation. 6.3. Formats for bibliography and applications. Digital resources for use	LC, SM
Module 7. Scientometrics	7.1.Scientometric databases. 7.2.Digital resources of international databases for research and collaboration	LC, SM
Module 8. Organization of a research team. Features of scientific activities	8.1.Structural organization of the research team and research management methods 8.2. Basic organization principles of scientific team activity	LC, SM

5. EQUIPMENT AND TECHNICAL SUPPORT REQUIREMENTS

Table 5.1. Equipment and technical support requirements

Academic Activity Type	Classroom Equipment	Specialized training/ lab equipment and module learning resources
Lecture	Classroom for lectures, equipped with a set of specialized furniture; whiteboard; devices: portable multimedia projector, laptop, projection screen, Stable 10 Mbps wireless Internet connection. Software: Microsoft Windows 10 64-bit, MS Office / Office 365, MS Teams, Chrome (latest stable release).	set of specialized furniture; whiteboard; devices: PCs/laptops, portable multimedia projector, projection screen, Internet connection (Wi-fi)
Seminar	Classroom for seminars and group work, group and individual consultations,	set of specialized furniture; whiteboard; devices: PCs/laptops,

	equipped with a set of specialized furniture; devices: portable multimedia projector, laptop, projection screen, Stable 10 Mbps wireless Internet connection. Software: Microsoft Windows 10 64-bit, MS Office / Office 365, MS Teams, Chrome (latest stable release).	portable multimedia projector, projection screen, Internet connection (Wi-fi)
Computer Lab	Computer lab equipped with a set of specialized furniture; devices: portable multimedia projector, laptop, projection screen, Stable 10 Mbps wireless Internet connection. Software: Microsoft Windows 10 64-bit, MS Office / Office 365, MS Teams, Chrome (latest stable release).	set of specialized furniture; whiteboard; devices: PCs/laptops, portable multimedia projector, projection screen, Internet connection (Wi-fi) TRADOS, SMARTCAT
Self-Study	Classroom for seminars and group work, group and individual consultations, equipped with a set of specialized furniture. Stable 10 Mbps wireless Internet connection.	set of specialized furniture; whiteboard; devices: PCs/laptops, Internet connection (Wi-fi)

6. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

E. Bettini, M. T. Brownell, J. McLeskey, & P. T. Sindelar (Eds.) (2023). *Handbook of research on special education teacher preparation.* Taylor & Francis Group.

Hymes, D. (2020). The Scope of Sociolinguistics, IJSL; 263: 67–76, https://doi.org/10.1515/ijsl-2020-2084

Matos, J. F., Piedade, J., Freitas, A., Pedro, N., Dorotea, N., Pedro, A., & Galego, C. (2023). Teaching and learning research methodologies in education: A systematic literature review. Education Sciences, 13(2), 173.

Menter, I. (2023). Teacher Education Research in the Twenty-First Century. In: Menter, I. (eds) The Palgrave Handbook of Teacher Education Research . Palgrave Macmillan, Cham. https://doi.org/10.1007/978-3-031-16193-3_85

Yang, A. (2024). Challenges and Opportunities for Foreign Language Teachers in the Era of Artificial Intelligence. International Journal of Education and Humanities, 4(1), 39-50.

Yang, L. (2024). The Routledge Handbook of Materials Development for Language Teaching: edited by Julie Norton and Heather Buchanan, London & New York, Routledge, 2022, xxiv, 575 pp., $200.00 ISBN 978-0-8153-8257-7 (hbk).

Additional readings:

Karataş, F., Abedi, F. Y., Ozek Gunyel, F., Karadeniz, D., & Kuzgun, Y. (2024). Incorporating AI in foreign language education: An investigation into ChatGPT's effect on foreign language learners. Education and Information Technologies, 1-24.

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
- EL University library on-line http://www.biblioclub.ru
- EL Yuright http://www.biblio-online.ru
- EL Consultant for Student www.studentlibrary.ru
- EL Lan' http://e.lanbook.com/

2.Databases and search engines:

- Yandex search engine https:// www .yandex.ru/
- Google search engine https://www.google.com/
- Scopus abstract database http://www.elsevierscience.ru/products/scopus/

Training toolkit for self- studies to master the course *:
1. The set of learning aids in Foreign languages for PhD students in the field of Pedagogy and Education, in line with the specialisation.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

7. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (competences in part) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

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