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**PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA**

Institute of Environmental Engineering

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

COURSE SYLLABUS

Research Methods of Environmental Pedagogy and Psychology

course title

Recommended by the Didactic Council for the Education Field of:

44.04.02 Psychological and Pedagogical Education

field of studies / speciality code and title

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

Environmental Pedagogy

higher education programme profile/specialisation title

Moscow, 2023

1. Course Aims and Objectives

The aim of the course: is the formation of theoretical and methodological competence and willingness to conduct pedagogical and psychological research, the ability to understand the relationship of science and practice in the field of Environmental Pedagogy.

Objectives:

- making students get theoretical knowledge, allowing to highlight the problems of modern pedagogy, psychology and educational practice, analyze and explain methodological problems of science;
- the formation of students' competences in the field of methodology of pedagogical and psychological research;
- mastering the methods of analyzing the results of scientific research and applying them when solving specific educational and research problems;
- formation of readiness to independently carry out scientific research using modern methods of science;
- formation of the student's ability to independently master new research methods, to change the scientific profile of their professional activities;
- development of reflective abilities of students;
- evaluation of the relevance of scientific research;
- using the conceptual and terminological apparatus of the discipline under study and the language of science;
- using various scientific sources that develop methodological competence and research culture;
- making a conscious choice of logic and research methods in the field of Environmental Pedagogy.

2. Course in the Higher Education Programme Structure

The course «**Research Methods of Environmental Pedagogy and Psychology**» refers to the compulsory disciplines module.

Table 1. Previous and subsequent courses aimed at building up competences

Nr.	Competence code and title	Previous courses	Subsequent courses
General competences			
1	GC-5 Able to develop programs for monitoring the results of students' education, develop and implement programs to overcome learning difficulties.	Environmental Education Concept of Environmental Pedagogy Research Work	Teaching Internship
Specialized professional competences			
3	SPC-1 Able to carry out research support and educational and methodological support for the implementation of basic and additional, including professional programs.	Environmental Education Concept of Environmental Pedagogy Research Work	Teaching Internship

3. Requirements to Learning Outcomes

The course is aimed at building up and enhancing the following competences:

General competence – 5. Able to develop programs for monitoring the results of students' education, develop and implement programs to overcome learning difficulties.

Specialized professional competence – 1. Able to carry out research support and educational and methodological support for the implementation of basic and additional, including professional programs.

On completion of the Course the student:

Knows:

- theoretical-methodological, methodical and organizational aspects of implementation of research activities in the field of Environmental Pedagogy;
- methods of critical analysis and evaluation of modern scientific achievements as well as methods for generating new ideas when solving research problems in the field of Environmental Pedagogy.

Can:

- analyze alternative options for solving research problems in the field of Environmental Pedagogy and evaluate potential gains/losses of implementing these options;
- when solving research problems to generate new ideas that can be operationalized based on available resources and constraints.

Masters:

- skills of analyzing methodological problems that arise when solving research tasks in the field of Environmental Pedagogy;
- skills of critical analysis and evaluation of modern scientific achievements and results of activities to solve research problems in the field of Environmental Pedagogy as well as in interdisciplinary areas.

4. Course Workload and Academic Activities

The course workload of «**Research Methods of Environmental Pedagogy and Psychology**» is 3 credits.

Table 4.1. Course workload and academic activities

Types of academic activities	Total hours	Semesters			
		1	2	3	4
Contact academic hours					
Including:					
<i>Lectures</i>					
<i>Seminars (workshops/tutorials)</i>	10				10
<i>Lab works</i>	-				
<i>Self-study</i>	71				71
Evaluation and assessment (exam; pass/fail grading)	27 pass/fail grading				27
Total course workload	hours	108			108
	credits	3			3

5. Course contents

Table 5.1 Course modules and contents

course modules	topics
1. Research Methods of Environmental Pedagogy	Functions of methodological knowledge. Modern pedagogical concepts, scientific approaches to the study of problems of environmental education. Methodological foundations of pedagogical scientific research. Theoretical research methods. Empirical research methods. Methodology for the organization of the experiment. Organization of ascertaining, forming and control experiment. Approbation of the research results. Implementation of research results into practice
2. Research Methods of Environmental Psychology	Theoretical and empirical knowledge in psychology. Methodology of experimental psychological research. Classification of research methods in psychology. Theory of psychological experiment. Design of the experiment and control of variables. Quasi-experiments. Systematization and specifics of experimental research in various fields of psychology. Correlation approach in testing psychological hypotheses. Measurement in psychology. Analysis and presentation of the results of psychological research.

6. Classroom equipment and technology support requirements

Table 6.1 Classroom equipment and technology support requirements

Classroom for Academic Activity Type	Classroom equipment	Specialized educational/laboratory equipment and materials for mastering the module
Lecture hall (room)		
Laboratory		
Seminar room	Classroom, equipped with a set of specialized furniture; a whiteboard; a personal computer with a standard package of office programmes; a set of devices includes portable multimedia projector, laptop, projection screen, Stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype	
Computer lab		
For students' self-study		

7. Resources recommended for course studies

Main reading

1. Bagdasaryan, N.G. History, philosophy and methodology of science and technology: textbook for masters / N.G. Bagdasaryan, V.G. Gorokhov, A.P. Nazareth; under total ed. N.G. Bagdasaryan. - M.: Yurayt, 2015. - 383 p.

2. Kolesnikova, G. I. Methodology of psychological and pedagogical research: textbook / G.I. Kolesnikov. - Rostov: Phoenix, 2015. - 318 p.
3. Pavlov, A.V. Logic and Methodology of Science: Modern Humanitarian Knowledge and its prospects [Electronic resource]: textbook / A.V. Pavlov. - M.: FLINTA, 2016. - 343 p. - EBS Lan. - Access mode: <https://e.lanbook.com/book/84190>.
4. Popkov, V.A. Pedagogy in the mirror of the research pedagogical search [Electronic resource]: textbook / V.A. Popkov, A.V. Korzhuev. - M.: Laboratory of Knowledge, 2017. - 217 p. - EBS Lan. - Access mode: <https://e.lanbook.com/book/103036>.

Additional reading

1. Borytko, N.M. Methodology and methods of psychological and pedagogical research: textbook / N.M. Borytko, A.V. Molozhavenko, I.A. Solovtsov. - 2nd ed. - M.: Academy, 2009. - 320 p.
2. Vershlovsky, S.G. Methods of observation in pedagogical research: textbook / S.G. Vershlovsky. - SPb.: SPb APPO, 2011. - 58 p.
3. Zagvyazinsky, V. I. Methodology and methods of psychological and pedagogical research: textbook / V. I. Zagvyazinsky, R. Atakhanov. - 7th ed. - M.: Academy, 2012. - 207 p.
4. Korzhuev, A.V. General scientific foundations of pedagogy and pedagogical search / A.V. Korzhuev, A.R. Sadykov. - M.: LIBROKOM, 2010. - 300 p.
5. Korzhuev, A.V. Pedagogy in the mirror of research search. At the crossroads opinions / A.V. Korzhuev, A. S. Sokolova. - M.: LENAND, 2014. - 202 p.
6. Kraevsky, V.V. Methodology of pedagogy: a new stage: textbook / V.V. Kraevsky, E.V. Berezhnova. - M.: Academy, 2006. - 394 p.
7. Matyushkina, M.D. Methods of pedagogical research: textbook / M.D. Matyushkin. - St. Petersburg: SPb APPO, 2012. - 143 p.
8. Methodology and methodology of pedagogical research: materials of the V Interregional scientific-practical. conf. of graduate students and applicants, 9-10 Feb. 1999 / E.E. Smirnova [and others]; scientific ed. I.A. Kolesnikov. - St. Petersburg: St. Petersburg GUPM, 2000. - 190 p.
9. Novikov, A.M. Methodology of scientific research / A.M. Novikov, D.A. Novikov. - M.: LIBROKOM, 2010. - 275 p.
10. Training of a teacher-researcher in university education [Electronic resource]: monograph / V.I. Zagvyazinsky [and others]. - Tyumen, 2017. - 164 p. Access mode: <https://e.lanbook.com/book/110066>.
11. Priority directions for the development of pedagogical and psychological research. - M.: MPSI; Voronezh: MODEK, 2004. - 71 p.

Internet-based sources

Electronic libraries with access for RUDN students

Russian education: federal portal: <http://www.edu.ru/>.

Library of the federal portal Russian education: http://www.edu.ru/index.php?page_id=242.

Pavlov A.V. Logic and Methodology of Science: Modern Humanitarian Knowledge and its prospects / A.V. Pavlov. - M.: Flinta: Nauka, 2010. - 344 p.: <http://znanium.com/bookread.php?book=241695>.

Ruzavin G.I. Methodology of scientific knowledge / G.I.Ruzavin. - M.: UNITY-DANA, 2012. - 287 p.: <http://znanium.com/bookread.php?book=392013>.

3. Valeev G.Kh. Methodology and methods of psychological and pedagogical research: Textbook for students of 3-5 courses of pedagogical universities in the specialty "031000 - Pedagogy and psychology". - Sterlitamak: Sterlitamak. state ped. in-t, 2002. - 134 p.: <http://window.edu.ru/library/pdf2txt/445/56445/27208>.

8. 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).

ASSESSMENT TOOLKIT

for the course

Research Methods of Environmental Pedagogy and Psychology

course title

44.04.02 Psychological and Pedagogical Education

field of studies / speciality code and title

Environmental Pedagogy

higher education programme profile/specialisation title

Master

graduate's qualification (degree)

Passport to Assessment Toolkit for Course

Field of studies: 44.04.02 “Psychological and Pedagogical Education”

Course: RESEARCH METHODS OF ENVIRONMENTAL PEDAGOGY AND PSYCHOLOGY

12.1. Competences under evaluation and assessment tools

Competences under assessment	Course module under assessment	Tools to assess higher education programme mastering level				Points for module	
		Classwork			Self-studies		Exam
		Test	Control work	Class work			
GC-1 SPC-1	1. Research Methods of Environmental Pedagogy	X		20	20		20
GC-1 SPC-1	2. Research Methods of Environmental Psychology	X		20	20		20

12.2 The maximum number of credits in the course is 3.

Assessment & Grading System

Total points	Final assessment	Number of credits
95-100	5	3
86 – 94	5 (B)	3
69-85	4 (C)	2
61-68	3+ (D)	1
51 – 60	3 (E)	1
31 – 50	2 (FX)	0
<30	2 (F)	0

12.3 Previous and subsequent courses aimed at building up competences

Nr.	Competence code and title	Previous courses	Subsequent courses
	General competences		-
1	GC-5 Able to develop programs for monitoring the results of students' education, develop and	Environmental Education Concept of Environmental	Teaching Internship

	implement programs to overcome learning difficulties.	Pedagogy Research Work	
Specialized professional competences			
3	SPC-1 Able to carry out research support and educational and methodological support for the implementation of basic and additional, including professional programs.	Environmental Education Concept of Environmental Pedagogy Research Work	Teaching Internship

12.4 Exam questions

1. Functions of methodological knowledge.
2. Modern pedagogical concepts, scientific approaches to the study of problems of environmental education.
3. Methodological foundations of pedagogical scientific research.
4. Theoretical research methods.
5. Empirical research methods.
6. Methodology for the organization of the experiment.
7. Organization of ascertaining, forming and control experiment.
8. Approbation of the research results.
9. Implementation of research results into practice.
10. Theoretical and empirical knowledge in psychology.
11. Methodology of experimental psychological research.
12. Classification of research methods in psychology.
13. Theory of psychological experiment.
14. Design of the experiment and control of variables.
15. Quasi-experiments.
16. Systematization and specifics of experimental research in various fields of psychology.
17. Correlation approach in testing psychological hypotheses.
18. Measurement in psychology.
19. Analysis and presentation of the results of psychological research.

Developer,
Head of the Higher Education
Program:
 C.Sc., Associate Professor
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