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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 Environmental Engineering

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

SCIENTIFIC RESEARCH PLAN

Scientific specialty:

1.5.15 Ecology

(scientific speciality code and title)

The course instruction is implemented within the PhD programmes:

Ecology: Modern Environmental Studies

(PhD program title)

2025 г.

1. DISIPLINE (MODULE) GOAL

The purpose of carrying out scientific research (carrying out scientific activities) is to prepare a dissertation for the scientific degree of Candidate of Sciences for defense.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The result of scientific research is the solution of a scientific problem that is important for the development of the relevant branch of science, or the development of a new scientifically based technical, technological or other solution that is essential for the development of the country.

Preparation of a dissertation for defense includes the implementation of an individual plan of scientific activity, writing, design and submission of the dissertation for final certification. The plan of scientific activity includes an approximate plan for the implementation of scientific research, a plan for preparing a dissertation and publications that present the main scientific results of the dissertation, as well as a list of stages for mastering the scientific component of the postgraduate program, the distribution of these stages and the final certification of postgraduate students.

The plan of scientific activity of a specific student is approved in the individual plan of scientific activity of a postgraduate student, the requirements for which are established by the relevant local regulatory act of RUDN.

3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the scientific research is 181 credits (6516 academic hours).

4. RESEARCH CONTENTS

II. RESEARCH CONTENTS		
Stages	Stage content (types of activities)	Workload, acad. hours
First Year		
Research activity aimed at preparing for a thesis defense	Discussion with the supervisor of the concept and approval of the topic of the dissertation research	1053
	Conducting a literature review to determine the degree to which the problem has been developed	
	Conducting scientific research (collecting data, conducting experiments/tests and processing their results)	
	Presentation of scientific research results	
Publication Activity	Preparation of scientific articles for publication in peer-reviewed scientific journals	216
	Presentation at specialized scientific conferences/seminars, including preparation of materials (presentations and reports)	
	Preparation of applications for participation in the grant competition (optional)	
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at a department meeting	
Second year		
Research activity aimed at preparing for a thesis defense	Conducting scientific research (collecting data, conducting experiments/tests and processing their results)	1764
	Presentation of scientific research results	
Publication Activity	Preparation of scientific articles for publication in peer-reviewed scientific journals	216

	Presentation at specialized scientific conferences/seminars, including preparation of materials (presentations and reports)	
	Preparation of applications for participation in the grant competition (optional)	
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at a department meeting	
Third year		
Research activity aimed at preparing for a thesis defense	Conducting scientific research (collecting data, conducting experiments/tests and processing their results)	1872
	Presentation of scientific research results	
Publication Activity	Preparation of scientific articles for publication in peer-reviewed scientific journals	216
	Presentation at specialized scientific conferences/seminars, including preparation of materials (presentations and reports)	
	Preparation of applications for patents for inventions, utility models, industrial designs, selection achievements (optional))	
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at a department meeting	
Fourth year		
Research activity aimed at preparing for a thesis defense	Conducting scientific research (collecting data, conducting experiments/tests and processing their results)	1764
	Design of dissertation research in accordance with the requirements of GOST R 7.0.11–2011	
Publication Activity	Preparation of scientific articles for publication in peer-reviewed scientific journals	108
	Presentation at specialized scientific conferences/seminars, including preparation of materials (presentations and reports)	
	Preparation of applications for patents for inventions, utility models, industrial designs, selection achievements (optional)	
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at a department meeting	
Total academic hours of scientific research:		6516

5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The place of scientific research shall comply with the current sanitary and epidemiological requirements, fire safety regulations and standards of health protection of the students.

The research plan requires classrooms that meet the safety requirements for academic work, if necessary, a computer room with workstations that provide Internet connection, as well as classrooms with multimedia equipment.

6. INTERNSHIP LOCATION AND TIMELINE

Scientific research can be carried out both in structural subdivisions of RUDN University or in organizations of Moscow (stationary), and at bases located outside of Moscow (exit).

Conducting scientific research on the basis of an external organization (outside RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions for performing scientific research in the base organization. The deadlines for the implementation of scientific research correspond to the period indicated in the calendar academic schedule of the postgraduate program.

Practice dates can be adjusted in coordination with the Department of Doctoral Studies of the RUDN University

7. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT FOR SCIENTIFIC RESEARCH

Regulatory documents regulating the process of preparation and defense of dissertations:

Federal Law of August 23, 1996 No. 127-FZ «On Science and State Scientific and Technical Policy» — URL: <http://pravo.gov.ru/proxy/ips/?docbody=&nd=102043112>

Decree of the Government of the Russian Federation dated September 24, 2013 No. 842 «On the procedure for awarding academic degrees» — URL: <http://pravo.gov.ru/proxy/ips/?docbody=&nd=102167993>

GOST R 7.0.11-2011 System of standards for information, library and publishing. Dissertation and dissertation abstract. Structure and design rules.

Internet Resources:

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 scientific research:

Guidelines for preparing dissertations and scientific publications.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR EVALUATION OF PHD STUDENTS' COMPETENCES LEVELS AS SCIENTIFIC RESEARCH RESULTS

Based on the results of the stages of scientific research, the PhD student submits a detailed oral or written report to the supervisor or to a department meeting. The report includes information characterizing the content of the PhD student's work and reflecting the implementation of scientific research.

The report must include information:

- about the degree of readiness of the dissertation;
- on the preparation and publication of articles in journals included in the list of Higher Attestation Commission, Russian Science Citation Index, Scopus, Web of Science and others equated to them and/or approved by the Academic Council of RUDN University;
- on the participation of a PhD student in scientific and technical events on the topic of his research;
- on participation in the research work of the department (with participation);
- other.

During the interim certification period, the supervisor provides feedback on the quality, timeliness and success of the PhD student's stages of scientific activity.

The results of scientific research for every six months of study are determined by conducting an intermediate certification with grades «excellent», «good», «satisfactory», «unsatisfactory» and in the ECTS system (A, B, C, D, E) in accordance with the rating system.

DEVELOPERS:

Associate professor
Department of Environmental Management



Kapralova Daria

HEAD OF THE DEPARTMENT

Head of the Department
of Nature Management



Kucher D.E.