

Документ подписан простой электронной подписью  
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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
NAMED AFTER PATRICE LUMUMBA  
RUDN University  
Academy of Engineering**

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

**Department of Architecture, Restoration and Design**

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(department realizing the PhD program)

**SCIENTIFIC RESEARCH PLAN**

Scientific specialty:

**2.1.12. Architecture of buildings and structures. Creative concepts of architectural activity**

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(scientific speciality code and title)

The course instruction is implemented within the PhD programmes:

**Architecture of buildings and structures. Creative concepts of architectural activity**

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(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 solution of a scientific problem that is important for the development of architecture or the development of a new scientifically-based volumetric, spatial, technical, technological, or other solution that has a significant importance for the development of architectural science. Preparation for dissertation defense includes the execution of an individual plan of scientific activity, writing, formatting, and presenting the dissertation for final evaluation. The plan of scientific activity includes an approximate plan for conducting scientific research, a plan for the preparation of the dissertation and publications, which highlight the main scientific results of the dissertation, as well as a list of stages for mastering the scientific component of the graduate program, the distribution of these stages, and the final evaluation of graduates.

### 3. VOLUME OF SCIENTIFIC RESEARCH

The overall workload for conducting scientific research is 150 credit units (5400 academic hours).

### 4. RESEARCH CONTENTS

Stage name	Content of the stage (topics, activities)	Labor intensity, academic hour
<b>First Year</b>		
Research activity aimed at preparing for a thesis defense	Familiarization with the history and traditions of RUDN, priority areas of research in architecture. Determination of the direction and concept of research, identification of relevant issues in the field of architecture. Study of the choice of the object and subject of research, basic concepts, and main tasks of research in architecture. Study of the methodology of problem research and theory through acquaintance with the works of scientists in the field of architecture and urban planning. Study of existing ideas and models in domestic and foreign science on which the graduate student's concept is based to achieve the set goals. Assessment by the graduate student of the significance of solving the problem in the field of architecture, its attractiveness, and developing potential for the graduate student, taking into account their professional and personal experience. Substantiation of the theoretical and practical relevance of the problem being solved in architecture based on a previously conducted analysis of scientific sources. Identification of Modeling Methods for the Object of Study. Theoretical and Spatial Models. Identification of Methods for Presenting Graphic Materials.	1476

Stage name	Content of the stage (topics, activities)	Labor intensity, academic hour
Publication Activity	Determination of an approximate plan for the preparation of articles, abstracts, and reports for conferences in accordance with the research topic in the field of architecture.	216
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of the report on the results of scientific research at the meeting of the department	
Second Year		
Research activity aimed at preparing for a thesis defense	Clarifying the proposed topic, goals, tasks, and research methodology in the field of architecture. Selection and justification of research methods. Refinement and supplementation of the source material basis, corroborating the theoretical foundations of the study. Development of a methodological apparatus and the structure of the dissertation. Refinement of the main used and newly proposed concepts and terms in the field of architecture. Formulating the presumed novelty of scientific results. Development of various models depending on the object of the research and the tasks set in the work. Identification of ways and techniques for presenting graphic material.	1404
Publication Activity	Determination of approximate plan for preparing articles, abstracts, and conference papers in accordance with the research topics in the field of architecture.	216
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of the report on the results of scientific research at the meeting of the department	
Third Year		
Research activity aimed at preparing for a thesis defense	Revision of the dissertation in accordance with formatting requirements. Formatting of the graphical part of the research in the form of drawings, diagrams, tables, matrices, graphs, and charts. Submission of cartographic material for the formation of the second volume to the main text of the research.	1656
Publication Activity	Determination of an approximate plan for preparing articles, abstracts, and conference presentations in accordance with the research topic in the field of architecture.	216
Intermediate certification	Preparation of a report on the results of scientific research	72
	Presentation of the report on the results of scientific research at the meeting of the	

Stage name	Content of the stage (topics, activities)	Labor intensity, academic hour
	department	
Total academic hours of scientific research:		5400

## 5. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Audience type	Equipping the audience	Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)
Lecture hall	An audience equipped with specialized furniture, a board (screen), and multimedia presentation equipment is required for conducting lecture-type classes.	projector, screen, computer
Seminary	An audience for conducting seminar-style classes, group and individual consultations, ongoing monitoring, equipped with a set of specialized furniture and multimedia presentation technical equipment.	projector, screen, computer, chalkboard
For independent work of students	An audience for independent work of students (which can also be used for conducting seminars and consultations), equipped with a set of specialized furniture and computers with access to electronic instructional and educational resources.	projector, screen, computer

## 6. METHODS OF CONDUCTING SCIENTIFIC RESEARCH

Scientific research is carried out in the structural divisions of the RUDN, as well as in partner organizations of the Department of Architecture, Restoration and Design.

## 7. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF SCIENTIFIC RESEARCH

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

Federal Law of August 23, 1996 № 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:**

Professor of Architecture,  
Restoration and Design  
Department



Sabitov L. S.

### **HEAD OF THE DEPARTMENT**

Head of the Department of  
Architecture, Restoration and  
Design



Garkin I. N.