

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**

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

Department of Architecture, Restoration and Design
(department realizing the PhD program)

COURSE SYLLABUS

Methodology of scientific research
(course title)

Scientific specialty:

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

(scientific specialty code and title)

The course instruction is implemented within the PhD programmes:

Architecture of buildings and structures. Creative concepts of architectural activity
(PhD program title)

2025 г.

1.DISCIPLINE (MODULE) GOAL

The objective of mastering the discipline "Methodology of Scientific Research" is to learn about the specific nature of the architectural science and its place in architectural activity, as well as to acquire knowledge and skills for conducting scientific research in the field of architecture.

2.REQUIREMENTS TO PHD-STUDENTS ON FINISHING THE COURSE

The study of the discipline "Methodology of Scientific Research" is aimed at acquiring knowledge, skills, abilities and experience of conducting scientific research and their application in scientific activities. This includes:

Mastery of the methodology of theoretical and experimental research in the field of architecture

Mastery of the culture of scientific research in the field of architecture, including the use of the latest information and communication technologies

Ability to professionally operate modern research equipment and instruments

Ability to create a concept, develop a project (structure, methodology, and further sections) of a comprehensive scientific research, conduct the research itself, and modify the initial project if necessary

Ability to professionally present the results of their research and represent them in the form of scientific publications and presentations

Ability to develop new research methods and apply them in independent scientific research activities in the field of architecture, taking into account the rules of compliance with copyright

Readiness to organize the work of a research team in the scientific industry corresponding to the direction of training

Ability to lead the scientific research activities of students.

3.WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the discipline is 1 credit (36 academic hours). Intermediate certification is 0,5 credit (18 academic hours).

Types of activities		Total ac. hrs.	Semesters
			1
<i>Classroom activities (total), including:</i>		18	18
Lectures (LC)		12	12
Practical lessons/Seminars (PC)		6	6
<i>Independent work</i>		18	18
<i>Intermediate certification (test with assessment)</i>		18	18
Overall workload	ac. hrs.	36	36
	credits	1,5	1,5

4.CONTENT OF THE DISCIPLINE

Name of the discipline section	Contents of the section (topic)	Type of study work
Section 1. History and methodology of architectural studies	Topic 1.1. Introduction to the history and methodology of Architectural Science	LC
	Topic 1.2. Specifics and tasks of architectural science and its place in architectural activity	LC

Name of the discipline section	Contents of the section (topic)	Type of study work
	Topic 1.3. History of architectural science	LC
	Topic 1.4. Fundamental and applied in architectural science	LC
Section 2. Elements of architectural science.	Topic 2.1. Elements of architectural science. Subject area. The object and subject of the study.	LC, PC
	Topic 2.2. Theoretical approaches to the organization of settlement systems and their elements.	LC, PC
	Topic 2.3. Experimental modeling in architectural science	PC

5.EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Room Type	Room Equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline
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
Class for Seminars	Room for seminar-type classes, equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets	Not necessary
Self-Work Class	Room for self-working (can be used for lecture and seminars activities), equipped with a set of specialized furniture, board (screen) and technical / multimedia gadgets and computers with an access to EIPES	Not necessary

6.METHODOLOGICAL SUPPORT AND LEARNING MATERIALS

Main readings:

1. Волков Ю.Г. Диссертация: подготовка, защита, оформление (для аспирантов). – М.: КноРус, 2015. – 207 с.
2. Кузнецов И.Н. Основы научных исследований: учеб. пособие. – М.: Дашков и К, 2014. – 284 с.
3. Овчаров А.О., Овчарова Т.Н. Методология научного исследования: учебник. – М.: ИНФРА-М, 2014. – 304 с.
4. Основы науковедения архитектуры: учеб. пособие / Н. П. Овчинникова; СПбГАСУ. – СПб., 2011. – 288 с.
5. Новиков А.М., Новиков Д.А. Методология научного исследования. – М.:Либроком, 2009. – 280с.

Additional readings:

1. ГОСТ Р 7.1.11 – 2011. Диссертация и автореферат диссертации. Структура и правила оформления.

Internet sources:

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 students' self-work studying the discipline / module:

A course of lectures on the discipline "Methodology of scientific research".

7.ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR MIDTERM ATTESTATION OF STUDENTS IN THE DISCIPLINE (MODULE)

Assessment toolkit and a grading system to evaluate the level of competences (competences in part) formation as the course results are specified on the TUIS platform.

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.