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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 programme developer)

Department of Transport Equipment and Technology

(department realizing the PhD program)

SCIENTIFIC RESEARCH PLAN

Scientific specialty:

2.9.9. Logistic transport systems

(scientific speciality code and title))

The course instruction is implemented within the PhD programmes:

Logistic transport systems

(PhD program title)

1. DISCIPLINE (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 a dissertation for final certification.

The plan of scientific activity includes an approximate plan for the implementation of scientific research, a plan for the preparation of a dissertation and publications, which set out 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 particular postgraduate student is approved in the individual plan of scientific activity of the postgraduate student, the requirements for which are established by the relevant local regulatory act of RUDN University.

3. WORKLOAD OF THE DISCIPLINE AND TYPES OF ACTIVITIES

The overall workload of the scientific research is 126 credits (4 536 academic hours).

4. 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 of dissertation research, determination of the topic of the dissertation	1 188
	Carrying out a literature review (review of domestic and foreign sources of scientific information) in order to determine the degree of development of the topic of the dissertation and its relevance	
	Determination of the purpose of the dissertation research and the tasks to be solved to achieve it	
	Choice of methodology(s) for conducting dissertation research	
	Defining the structure of the dissertation and drawing up a plan for the dissertation work	
	Start of scientific research	
	Registration of the results of scientific research	
Publication Activity**	Preparation and publication of scientific articles in peer-reviewed scientific journals, certified (profiled) in this scientific specialty and the relevant branch of science	216
	Presentation at specialized scientific and technical events (conferences, seminars, round tables, etc.), including the preparation of materials (presentations, reports, theses, annotations)	
	Preparation and submission of applications - patents for inventions, utility models, industrial designs, selection achievements, - certificates of state registration of programs for electronic computers, databases, integrated circuit topologies. <i>(performed in case the postgraduate student receives new results of intellectual activity, to ensure the legal protection of such results)</i>	
	Preparation and submission of applications for participation in competitions for scientific projects, grants, scholarships, etc.	
Intermediate Attestation	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at the meeting of the department	

Second year		
Research activity aimed at preparing for a thesis defense	Conducting scientific research	1 116
	Registration of the results of scientific research	
Publication Activity**	Preparation and publication of scientific articles in peer-reviewed scientific journals, certified (profiled) in this scientific specialty and the relevant branch of science	216
	Presentation at specialized scientific and technical events (conferences, seminars, round tables, etc.), including the preparation of materials (presentations, reports, theses, annotations)	
	Preparation and submission of applications - patents for inventions, utility models, industrial designs, selection achievements, - certificates of state registration of programs for electronic computers, databases, integrated circuit topologies. <i>(performed in case the postgraduate student receives new results of intellectual activity, to ensure the legal protection of such results)</i>	
	Preparation and submission of applications for participation in competitions for scientific projects, grants, scholarships, etc.	
Intermediate Attestation	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at the meeting of the department	
Third year		
Research activity aimed at preparing for a thesis defense	Completion of scientific research	1 368
	Assessment of the scientific novelty, theoretical and practical significance of the dissertation, the degree of reliability of the results obtained	
	Preparation of the results of scientific research, preparation of the text of the dissertation and the abstract of the dissertation in accordance with the requirements GOST R 7.0.11-2011	
Publication Activity**	Preparation and publication of scientific articles in peer-reviewed scientific journals, certified (profiled) in this scientific specialty and the relevant branch of science	216
	Presentation at specialized scientific and technical events (conferences, seminars, round tables, etc.), including the preparation of materials (presentations, reports, theses, annotations)	
	Preparation and submission of applications - patents for inventions, utility models, industrial designs, selection achievements, - certificates of state registration of programs for electronic computers, databases, integrated circuit topologies. <i>(performed in case the postgraduate student receives new results of intellectual activity, to ensure the legal protection of such results)</i>	
Intermediate Attestation	Preparation of a report on the results of scientific research	72
	Presentation of a report on the results of scientific research at the meeting of the department	
Total academic hours of scientific research:		4 536

* For each postgraduate student, an "Individual Plan of Scientific Work" is drawn up, which establishes his/her personal list of works for the implementation of scientific research, criteria for assessing the quality of such work, terms and volumes of their implementation

** The Higher Attestation Commission (HAC) under the Ministry of Education and Science of the Russian Federation establishes criteria for publications that set out the main results of the dissertation - the minimum number of publications and the level (categories) of scientific publications that published them. These criteria depend on the branch of science and can be specified by the organization on the basis of which the dissertation council was created, and which is granted the right to independently award academic degrees. For RUDN University dissertation councils, the criteria for the publication of applicants are established by the Regulations on the Awarding of Academic Degrees at RUDN University ([https://www.rudn.ru/userfiles/files/№132%20от%2029_02_2024%20О%20ВВЕДЕНИИ%20В%20ДЕЙСТВИЕ%20ЛОКАЛЬНЫХ%20НОРМАТИВНЫХ%20АКТОВ%20ПО%20ВОПРОСУ%20САМОСТОЯТЕЛЬ_ %20О_ А_ %20Ястребов%20\(1\)%20\(1\).pdf](https://www.rudn.ru/userfiles/files/№132%20от%2029_02_2024%20О%20ВВЕДЕНИИ%20В%20ДЕЙСТВИЕ%20ЛОКАЛЬНЫХ%20НОРМАТИВНЫХ%20АКТОВ%20ПО%20ВОПРОСУ%20САМОСТОЯТЕЛЬ_ %20О_ А_ %20Ястребов%20(1)%20(1).pdf)). Patents for inventions, utility models, industrial designs, selection achievements, certificates of state registration of programs for

electronic computers, databases, topologies of integrated circuits are equated to publications in which the main results of the dissertation are set forth.

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» <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» <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 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 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 of
the Department of
Transport Equipment
and Technology**

Position, BD

Signed

S.V. Khlopkov

Name and surname

THE HEAD OF THE

EDUCATIONAL PROGRAMME:

**Professor, Head of
Department of Transport
Equipment and
Technology**

Position, BD

Signed

A.R. Asoyan

Name and surname