

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**

Agrarian and Technological Institute

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

COURSE SYLLABUS

FUNDAMENTALS OF SCIENTIFIC COMMUNICATION

course title

Recommended by the Didactic Council for the Education Field of:

35.04.04 AGRONOMY

field of studies / speciality code and title

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

INTEGRATED PLANT PROTECTION

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The discipline "Fundamentals of Scientific Communication" is part of the Master's program "Integrated Plant Protection" under the field of study 35.04.04 "Agronomy" and is studied in the 1st semester of the 1st year. The discipline is delivered by the Agrobiotechnology Department.

The discipline consists of 6 sections and 15 topics and is aimed at studying public speaking and writing scientific papers.

The purpose of mastering the discipline is: preparing students for independent research activities, mastering the methodology and methods of analyzing scientific research, improving methods of public speaking, writing abstracts, reports, scientific articles, conference abstracts, term papers and final qualifying papers.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the discipline "Fundamentals of Scientific Communication" is aimed at developing the following competencies (parts of competencies) in students:

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-4	Able to apply modern communicative technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction	GC-4.2 Presents the results of academic and professional activities at various scientific events, including international ones; GC-4.3 Demonstrates integrative skills necessary for effective participation in academic and professional discussions;
PC-5	Able to prepare scientific and technical reports, reviews and scientific publications based on the results of conducted research	PC-5.3 Able to properly organize obtained research results in articles, textbooks and monographs;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline "Fundamentals of Scientific Communication" belongs to the part formed by participants of educational relations of Block 1 "Disciplines (modules)" of the higher education program.

Within the framework of the higher education program, students also master other disciplines and/or practices that contribute to achieving the planned learning outcomes of the discipline "Fundamentals of Scientific Communication".

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-4	Able to apply modern communicative technologies in the state language of the Russian		Undergraduate practice/Pre-diploma practice; Russian as a Foreign Language; Russian Language for Foreign

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	Federation and foreign language(s) for academic and professional interaction		Students;
PC-5	Able to prepare scientific and technical reports, reviews and scientific publications based on the results of conducted research		Scientific research work; Scientific and Research Practice; Undergraduate practice/Pre-diploma practice; Mathematical Modeling and Design;

* To be filled in according to the competence matrix of the higher education programme.

** – Elective disciplines/practices

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total labor intensity of the discipline "Fundamentals of Scientific Communication" is 3 credit units.

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)*

Type of academic activities	Total academic hours	Semesters/training modules
		1
<i>Contact academic hours</i>	<i>34</i>	<i>34</i>
including:		
Lectures (LC)	0	0
Lab work (LW)	0	0
Seminars (workshops/tutorials) (S)	34	34
<i>Self-studies</i>	<i>59</i>	<i>59</i>
<i>Evaluation and assessment (exam/passing/failing grade)</i>	<i>15</i>	<i>15</i>
Course workload	academic hours	108
	credits	3

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1: Fundamentals of scientific communication	Topic 1.1. Collection and preservation of scientific information.	S
Module 2: The structure of the final work. Diploma (graduation) work as a qualification study	Topic 2.1. Rules for the design of the manuscript.	S
	Topic 2.2. Literature review.	S
	Topic 2.3. Conditions, materials (objects) and methods of research.	S
Module 3: Report	Topic 3.1. General characteristics.	S

Course module title	Course module contents (topics)	Academic activities types
	Topic 3.2. The preparatory stage. Work on the text of the abstract.	S
	Topic 3.3. The final stage.	S
Module 4: Master's thesis	Topic 4.1. General characteristics. The sequence of execution.	S
	Topic 4.2. The preparatory stage.	S
	Topic 4.3. The experimental/ calculated part.	S
Module 5: Scientific publications	Topic 5.1. Concepts, functions, basic types.	S
	Topic 5.2. Abstracts of the scientific report/communication	S
	Topic 5.3. General characteristics of the report.	S
Module 6: Presentation and defense of master's works	Topic 6.1. The formulation of the relevance, purpose, objectives, scientific novelty of the work.	S
	Topic 6.2. Presentation, design of research results, illustrative and tabular material.	S

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Seminar	A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialized furniture and technical means for multimedia presentations.	Set of specialized furniture. Technical means: interactive whiteboard
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. *Scientific Communication*. Publisher: Taylor & Francis. Publisher website: <http://www.taylorandfrancis.com/>. Publication date and place: 2018. Imprint: Routledge. Series: Routledge Studies in Technical Communication, Rhetoric, and Culture. Classification: Semantics, discourse analysis, etc.; Communication studies; Creative writing & creative writing guides. Pages: 332.
2. *Methodology of scientific research: a textbook for universities* / N.A. Slesarenko, E.N. Borkhunova, S.M. Borunova [et al.]; edited by N.A. Slesarenko. — 5th ed.,

revised. — St. Petersburg: Lan, 2021. — 268 p. — ISBN 978-5-8114-7204-8. — Text: electronic // Lan: electronic library system. — URL: <https://e.lanbook.com/book/156383>

Additional readings:

1. *Methodology of scientific research: a textbook for universities / N.A. Slesarenko, E.N. Borkhunova, S.M. Borunova [et al.]; edited by N.A. Slesarenko. — 5th ed., revised. — St. Petersburg: Lan, 2021. — 268 p. — ISBN 978-5-8114-7204-8. — Text: electronic // Lan: electronic library system. — URL: <https://e.lanbook.com/book/156383>*
2. *Torikov, V.E. Introduction to agronomy: a textbook for universities / V.E. Torikov, O.V. Melnikova; edited by V.E. Torikov. — Saint Petersburg: Lan, 2024. — 200 p. — ISBN 978-5-507-49420-0. — Text: electronic // Lan: electronic library system. — URL: <https://e.lanbook.com/book/417611>*

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Znaniy": <https://znaniy.ru/>

2. Databases and search engines:

- Sage: <https://journals.sagepub.com/>
- Springer Nature Link: <https://link.springer.com/>
- Wiley Journal Database: <https://onlinelibrary.wiley.com/>
- Scientometric database Lens.org: <https://www.lens.org>

*Training toolkit for self- studies to master the course *:*

- Lecture course on the discipline " Fundamentals of Scientific Communication ".

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

DEVELOPERS:

Associate Professor of the Agrobiotechnology Department

Romanova E.V.

position, department

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

Director of the Agrobiotechnology Department

Pakina E. N.

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OF HIGHER EDUCATION PROGRAMME:**

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