Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University

Agrarian -Technological Institute

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

COURSE SYLLABUS

Manuscript Design
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

2025

1. COURSE GOAL(s)

The purpose of mastering the discipline "Manuscript Design" is to prepare the student for independent research activities, master the methodology and methods of analyzing scientific research, improve the methods of public speaking, writing essays, reports, scientific articles, conference theses, course and final qualification works.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the discipline "Manuscript Design" is aimed at the formation of the following competencies (part of the competencies) among students:

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GK-1	Able to carry out a critical analysis of problematic situations based on a systematic approach, to develop a strategy of action	GK-1.1. Searches for the necessary information, critically analyzes it, and summarizes the results of the analysis to solve the task;
PK-5	Able to prepare scientific and technical reports, reviews and scientific publications based on the results of the research performed	PK-5.3. Able to correctly arrange the obtained research results in articles, textbooks and monographs.;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

Mastering the discipline "Manuscript Design" is aimed at forming the following competencies (part of the competencies) among students:

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*
GK-1	Able to carry out a critical analysis of problematic situations based on a systematic approach, to develop a strategy of action		Research Practice; Undergraduate practice / Преддипломная практика; Scientific research work / Научно-исследовательская работа; Organization of Integrated Plant Protection Systems; Instrumental methods of research; Plant immunity; Biotechnology in Plant Protection;

Compet ence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PK-5	Able to prepare scientific and technical reports, reviews and scientific publications based on the results of the research performed		Scientific research work / Научно-исследовательская работа; Research Practice: Undergraduate practice / Преддипломная практика; Mathematical Modeling and Design;

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

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

Possible wording

The total labor intensity of the discipline "Manuscript Design" is 3 credits for full-time education.

Table 4.1 – Types of educational work by periods of mastering the OP HE for full-time education

Type of academic activities		Total academic hours	Semesters/training modules			
			1	2	3	4
Contact academic hours		34	34			
including:						
Lectures (LC)						
Lab work (LW)						
Seminars (workshops/tutorials) (S)		34	34			
Self-studies		59	59			
Evaluation and assessment (exam/passing/failing grade)		15	15			
Course workload	academic hours_	**108**	**108**			
	credits	**3**	**3**			

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1: Working with scientific literature	Topic 1.1. Collection and preservation of scientific information. Work in professional specialized and general scientific libraries. Working with electronic resources.	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. The title page. Table of contents. Introduction.	S
	Topic 2.2. Literature review. Bibliographic list of references.	S
	Topic 2.3. Conditions, materials (objects) and methods of conducting research. Chapters of the	S

Course module title	Course module contents (topics)	Academic activities types
	main (experimental) part. Conclusion (discussion of the results). Conclusions. Application.	
Module 3: Report	Topic 3.1. General characteristics. The sequence of execution. Defining the topic.	S
	Topic 3.2 The preparatory stage. Work on the text of the abstract.	S
	Topic 3.3 The final stage. Preparation of the report. Preparation for the defense and protection of the abstract.	S
Module 4: Master's thesis	Topic 4.1. General characteristics. The sequence of execution. Definition of the topic and the supervisor.	S
	Topic 4.2. The preparatory stage. Work on the literary review of the thesis (graduation work).	S
	Topic 4.3. The experimental/ calculated part. The economic part. The final stage. Conclusions.	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. The structure 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. Preparation of a public report	S
	Topic 6.2. Presentation, design of research results, illustrative and tabular material. Public protection.	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)
Seminary	An auditorium for seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and multimedia presentation equipment.	
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	

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Isachkin, A.V. Fundamentals of scientific research in horticulture / A.V. Isachkin, V. A. Kryuchkova ; edited by A.V. Isachkin. — 3rd ed., ster. — St. Petersburg : Lan, 2023. — 420 p. — ISBN 978-5-507-47981-8. — Text : electronic // Lan : electronic library system. — URL: https://e.lanbook.com/book/336803

2. Fundamentals of research activity : a textbook / compiled by O. A. Dragich [et al.]. Tyumen : State Agrarian University of the Northern Urals, 2023. 150 p. — Text : electronic // Lan : electronic library system. — URL: https://e.lanbook.com/book/339869

Additional readings:

1. Methodology of science and modern problems in agronomy, agrochemistry and agro soil science : textbook / compiled by N. A. Ryabtseva [et al.]. — Persianovsky : Donskoy State Agrarian University, 2021. — 183 p. — Text : electronic // Lan : electronic library system. — URL: https://e.lanbook.com/book/216707

2. Ignatova, G. A. Educational and methodical manual on conducting industrial practice (research work) for students of the training area 03/35/03 - Agrochemistry and agro soil science (bachelor's degree) full-time and part–time forms of study : educational and methodical manual / G. A. Ignatova, E. I. Stepanova. — Orel : OrelGAU, 2022. — 40 p. — Text : electronic // Lan : electronic library system. — URL: https://e.lanbook.com/book/322082

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/

2.Databases and search engines:
- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
- Yandex search engine https:// www .yandex.ru/
- Google search engine https://www.google.ru/
- Scopus abstract database http://www.elsevierscience.ru/products/scopus/

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

The set of lectures on the course «Manuscript Design»
* 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:

position, department	name and surname

position, department	name and surname

position, department	name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

name of department	name and surname

**HEAD
OF HIGHER EDUCATION PROGRAMME:**

position, department	name and surname