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Федеральное государственное автономное образовательное учреждение высшего образования «Российский университет дружбы народов имени Патриса Лумумбы»
Аграрно-технологический институт

(наименование основного учебного подразделения (ОУП) – разработчика ОП ВО)

Утверждена на заседании Ученого
совета РУДН протокол № 10
от « 20 » мая 2024 г.

Открыта приказом ректора РУДН
№ 44-1
от « 07 » июня 2024 г.

**ОСНОВНАЯ ПРОФЕССИОНАЛЬНАЯ ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА
ВЫСШЕГО ОБРАЗОВАНИЯ (ОП ВО)**

Направление подготовки/специальность:

35.04.04 Агрономия

(код и наименование направления подготовки/специальности)

Направленность (профиль/специализация):

General Agriculture / Общая агрономия

(наименование ОП ВО)

Образовательная программа разработана в соответствии с требованиями:

ОС ВО РУДН, утвержденного приказом ректора № 371 от «21» мая 2021 г.

Уровень образования:

магистратура

(бакалавриат/специалитет/магистратура/ординатура – вписать нужное)

Квалификация выпускника:

магистр

(квалификация выпускника в соответствии с приказом Минобрнауки России от 12.09.2013 г. №1061)

Срок получения образования по ОП ВО:

2 года

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(очная форма обучения)

(очно-заочная форма обучения)

(заочная форма обучения)

Сведения об особенностях реализации программы: программа реализуется на английском языке

СОГЛАСОВАНО:

Руководитель ОП ВО
Пакина Е. Н.

Председатель МССН
Пакина Е. Н.

Руководитель ОУП
Довлетярова Э.А.

(подпись)

(подпись)

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1. EDUCATIONAL PROGRAMME GOAL (MISSION)

The main goal in the implementation of educational programs in this area of study is to ensure the high quality of training and competitiveness of innovation-oriented specialists using new scientific and laboratory equipment, modern practice bases for priority high-tech sectors of the national economy through integration and cooperation with employers and strategic partners

2. EDUCATIONAL PROGRAMME RELEVANCE, SPECIFICITY, AND UNIQUENESS

The master's program "Agronomy" specialization " General Agriculture " is the direction of obtaining basic higher education at the Agrarian and Technological Institute of RUDN University. Higher education under the master's program can be obtained full-time. Duration of study: 2 years.

The features of the implementation of the main educational program include the modular principle and the use of elements of e-learning and distance learning technologies. When teaching people with disabilities, e-learning and distance learning technologies provide for the possibility of receiving and transmitting information in forms accessible to them.

The peculiarity of the preparation of masters in the direction 35.04.04 "Agronomy" of the specialization " General Agriculture " is that already during their studies in the magistracy they have the opportunity to realize themselves in the field of innovative technologies business.

3. LABOUR MARKET NEEDS FOR PERSONNEL TRAINING IN EDUCATIONAL PROGRAMME PROFILE

A master's degree holder in the field of 35.04.04 "Agronomy" with a specialization in " General Agriculture " is trained for scientific research professional activities.

Specialists in this field are in demand at enterprises of various forms of ownership, in large state and scientific-production associations, small and medium-sized businesses, implementation and consulting structures, including foreign companies.

Further professional activities may include:

- Agro-industrial holdings of Russian and international companies;
- Leading Russian and global companies involved in the development, production, and sale of plant protection products;
- Experimental stations for plant protection;
- Relevant scientific research institutions;
- The Federal State Institution "Rosselkhozcenter" system;
- Customs service for phytosanitary supervision;
- Enterprises of the Federal State Budgetary Institution "All-Russian Plant Quarantine Center";
- Offices of Russian and foreign insurance companies.

Graduates in this field possess a universal set of skills, as their interests cover almost all processes taking place at specialized enterprises. The acquired knowledge enables them to address the following professional tasks:

- Programming crop yields for various levels of agricultural technologies;
- Developing and implementing environmentally safe methods and technologies for the production of high-quality crop products, taking into account the characteristics of agro-landscapes and economic efficiency;
- Designing adaptive landscape farming systems for various organizational forms of the agro-industrial complex and their implementation;
- Providing consultations on innovative technologies in agronomy;
- Collecting, processing, analyzing, and systematizing scientific and technical information, as well as domestic and international experience;
- Developing experimental methodologies and mastering new research methods;
- Organizing, conducting, and analyzing the results of experiments;
- Creating optimization models of crop cultivation technologies, plant protection systems, and varieties;

- Preparing scientific and technical reports, reviews, and scientific publications based on research results.

4. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS

A potential applicant of the main educational program in the direction of preparation 35.04.03 "Agronomy" of the specialization " General Agriculture " must be prepared for activities that require in-depth agricultural, research and pedagogical training and possess the following competencies:

• *general cultural competencies*: the ability to abstract thinking, analysis, synthesis; willingness to act in non-standard situations, bear social and ethical responsibility for the decisions made; readiness for self-development, self-realization, use of creative potential;

• *general professional competencies*: readiness for communication in oral and written forms in Russian and foreign languages to solve the problems of professional activity; willingness to lead a team in the field of their professional activity, tolerantly perceiving social, ethnic, confessional and cultural differences; the ability to make organizational and managerial decisions;

• *professional competencies*

в *areas of research activity*: the ability to summarize and critically evaluate the results obtained by domestic and foreign researchers, identify promising areas, draw up a research program; the ability to substantiate the relevance, theoretical and practical significance of the chosen topic of scientific research; the ability to conduct independent research in accordance with the developed program; the ability to present the results of the research to the scientific community in the form of an article or report.

5. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

5.1. The Educational Programme is implemented without the use of e-learning / distance learning technologies.

5.2. The language of the Educational Programme implementation is English.

5.3. The Educational Programme does not provide for education of people with disabilities.

5.4. The Educational Programme is implemented by the Federal State Autonomous Educational Institution of Higher Education "Peoples' Friendship University of Russia.

5.5. The information on the planned introductory/advanced field internships and (or) research & development internships

Internship*	Internship location (<i>organisation name and location</i>)
Technological Practice	- agricultural holdings of Russian and foreign companies; - leading Russian and international companies in the development, production and sale of plant protection products; - experimental stations for plant protection; - specialized research institutions; - system of FGU "Rosselkhoztsentr"; - customs service for phytosanitary supervision; - enterprises FGU plant quarantine; - representative offices of Russian and foreign insurance companies
Undergraduate Practice	

6. CHARACTERISTICS OF EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

6.1. The field(s) of professional activities of the Educational Programme graduate,—where he/she can carry out his/her professional activities: organization and execution of work on the production of crop products.

6.2. The type(s) of professional activities tasks, which the graduate is trained to solve when mastering the Educational Programme: research, production-technological.

6.3. The list of generalised labour functions and labour functions which are related to the professional activities of the Educational Programme graduate and are taken into account in the course of its development.*

Code and title of occupational standard	Generalised labour functions			Labour functions		
	Code	Title	Qualification level	Title	Code	Qualification level (sublevel)
234 Agronomist	D	Plant production management	7	Carrying out research work in the field of agronomy in production conditions	D/03.7	7

* The wording of labour functions is taken from the relevant Occupational Standards.

7. REQUIREMENTS FOR EDUCATIONAL PROGRAMME OUTCOMES

7.1. Upon completion of the Educational Programme, the graduate is expected to acquire the following Generic Competences (GCs):

Code and descriptor of generic competence	Code and competence level indicator
GC-1 Able to search, critical analysis of problem situations based on a systematic approach, develop an action strategy	GC-1.1. Performs the search for the necessary information, its critical analysis and summarizes the results of the analysis to solve the problem; GC-1.2. Uses a systematic approach to solve assigned tasks; GC-1.3. Develops a strategy for achieving the set goal as a sequence of steps, anticipating the result of each of them and assessing their impact on the external environment of the planned activity and on the relationship between the participants in this activity.
GC-2 Able to manage a project at all stages of its life cycle	GC-2.1. Develops the concept of the project within the framework of the identified problem, formulating the goal, objectives, relevance, significance (scientific, practical, methodological and other depending on the type of project), expected results and possible areas of their application; GC-2.2. Forms a schedule for the implementation of the project as a whole and a plan for monitoring its implementation, organizes and coordinates the work of project participants; GC-2.3. Suggests possible ways (algorithms) for putting the results of the project into practice (or implements it).
GC-3 Able to organize and manage the work of the team, developing a team strategy to achieve the goal	GC-3.1 Develops a cooperation strategy and, on its basis, organizes the work of the team to achieve the goal; GC-3.2 Plans team work, distributes tasks and delegates authority to team members, organizes discussion of different ideas and opinions
GC-4 Able to use modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction	GC-4.1 Demonstrates the integrative skills required for writing, translating and editing various academic texts (abstracts, essays, reviews, articles, etc.); GC-4.2 Presents the results of academic and professional activities at various scientific events, including international ones; GC-4.3 Demonstrates the integrative skills necessary to participate effectively in academic and professional discussions.
GC-5 Able to analyze and take	GC-5.1 Demonstrates understanding of the characteristics of

Code and descriptor of generic competence	Code and competence level indicator
into account the diversity of cultures in the process of intercultural interaction	different cultures and nations; GC-5.2 Builds social interaction, taking into account the common and special of different cultures and religions.
GC-6 Able to identify and implement the priorities of their own activities and ways to improve it based on self-assessment	GC-6.1 Evaluates his resources and their limits (personal, situational, temporary), uses them optimally for the successful completion of the assigned task; GC-6.2 Plans a professional trajectory, taking into account the characteristics of both professional and other types of activity and the requirements of the labor market.
GC-7 Able to search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems, evaluate information, its reliability, build logical conclusions based on incoming information and data	GC-7.1 Evaluates information, its reliability, builds logical conclusions based on incoming information and data; GC-7.2 Has practical experience in searching, perceiving, storing, analyzing, transmitting information and data using digital tools, algorithms and application programs in order to solve the tasks.

7.2. Upon completion of the Educational Programme, the graduate is expected to acquire the following general professional competences (GPCs):

Code and descriptor of general professional competence	Code and competence level indicator
GPC-1 Able to solve the problems of developing the field of professional activity and (or) organization based on the analysis of the achievements of science and production	GPC-1.1 Demonstrates knowledge of the main methods for analyzing the achievements of science and production in agronomy; GPC-1.2 Uses methods for solving problems of the development of agronomy based on the search and analysis of modern achievements in science and production; GPC-1.3 Uses available technologies, including information and communication, to solve the problems of professional activities in agronomy.
GPC-2 Able to transfer professional knowledge, taking into account pedagogical methods	GPC-2.1 Knows modern educational technologies of vocational education (vocational training); GPC-2.2 Transfers professional knowledge in the field of agronomy, explains current problems and trends in its development, modern technologies for the production of crop products.
GPC-3 Able to use modern methods of solving problems in the development of new technologies in professional activities	GPC-3.1 Analyzes methods and methods for solving problems of developing new technologies in agronomy; GPC-3.2 Uses information resources, achievements of science and practice in the development of new technologies in agronomy.
GPC-4 Capable of conducting scientific research, analyzing	GPC-4.1 Analyzes methods and methods for solving research problems;

Code and descriptor of general professional competence	Code and competence level indicator
results and preparing reports	GPC-4.2 Uses information resources, scientific, experimental and instrumental base for research in agronomy; GPC-4.3 Formulates the results obtained in the course of solving research problems.
GPC-5 Able to carry out a feasibility study of projects in professional activities	GPC-5.1 Owns methods of economic analysis and accounting for project indicators in agronomy; GPC-5.2 Analyzes the main production and economic indicators of the project in agronomy; GPC-5.3 Develops proposals to improve project efficiency in agronomy.
GPC-6 Able to manage teams and organize production processes	GPC-6.1 Able to work with information systems and databases on personnel management issues; GPC-6.2 Defines the tasks of the personnel of the structural unit, based on the goals and strategy of the organization; GPC-6.3 Applies methods of managing interpersonal relationships, building teams, developing leadership and performance, identifying talents, measuring job satisfaction.
GPC-7 Able to use tools for working with large arrays of structured and unstructured information, use modern digital methods for processing, analyzing, interpreting and visualizing data in order to solve the tasks of professional and research activities in the field of agronomy	GPC-7.1 Owns tools for working with large arrays of structured and unstructured information; GPC-7.2 Uses modern digital methods for processing, analyzing, interpreting and visualizing data in order to solve the assigned tasks.

7.3. Upon completion of the Educational Programme, the graduate is expected to acquire the following professional competences (PCs)* :

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupational standard for relevant PC
PC-1 Capable of collecting, processing, analyzing and systematizing scientific and technical information, domestic and foreign experience in the field of agronomy	PC-1.1 Carries out a critical analysis of the information received PC-1.2 Conducts information retrieval on improving technologies for growing and protecting crops, including using the Internet	234 Agronomist
PC-2 Able to develop methods for conducting experiments, master new research methods	PC-2.1 Develops methods for conducting experiments PC-2.2 Applies modern types and methods of conducting observations and records in field experiments	
PC-3 Able to organize, conduct and analyze the results of experiments (field experiments)	PC-3.1 Owns modern methods of processing research results using methods of mathematical statistics PC-3.2 Organizes field experiments to assess the effectiveness of innovative technologies in	

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupational standard for relevant PC
	production conditions	
PC-4 Able to create models of crop cultivation technologies, plant protection systems, varieties	PC-4.1 Applies modern methods of mathematical statistics to build models of various crop cultivation technologies, plant protection systems, varieties PC-4.2 Is able to highlight the main and secondary components of models in order to accelerate their development PC-4.3 Carries out the creation of plant protection systems for specific production conditions PC-4.4 Has the skills to organize plant protection work adapted to the soil and climatic conditions of the region PC-4.5 Works to protect plants from harmful objects PC-4.6 Develops and improves measures to protect plants from harmful objects	
PC-5 Able to prepare scientific and technical reports, reviews and scientific publications based on the results of research	PC-5.1 Draws up a research program to study the effectiveness of agricultural practices PC-5.2 Uses the methods of mathematical statistics when processing data and preparing a report PC-5.3 Knows how to correctly compose the results of research in articles, textbooks and monographs	
PC-6 Able to consult on innovative technologies in agronomy	PC-6.1 Able to work with information systems and databases on the management of agricultural production PC-6.2 Is able to argue the need to use plant protection technologies for the accelerated development of agricultural enterprises	
PC-7 Able to carry out phytosanitary control at the state border in order to protect the territory of the Russian Federation from the penetration of quarantine and other dangerous pathogens and pests of plants, weeds	PC-7.1 Recognizes quarantine objects and identifies quarantine pests and pathogens PC-7.2 Conducts an examination of crops and crop products for the presence of quarantine objects	

8. MATRIX OF COMPETENCES that students acquire when mastering the Educational Program « General Agriculture » in the field of studies 34.04.04 Agronomy

Code	Courses/modules that form students' competences	GENERIC COMPETENCES						
		GC-1	GC-2	GC-3.	GC-4	GC-5	GC-6	GC-7
Block 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	Russian as a Foreign Language / Русский язык как иностранный				GC-4.1; GC-4.2; GC-4.3;	GC-5.1; GC-5.2;		
B1.O.01.02	Information Technology / Информационные технологии	GC-1.1; GC-1.2;						GC-7.1; GC-7.2;
B1.O.02	Variable component							
B1.O.02.01	Crop Production / Растениеводство	GC-1.3;	GC-2.3;					
B1.O.02.02	Soil Fertility Management / Управление почвенным плодородием	GC-1.1; GC-1.3	GC-2.1					GC-7.2;
B1.O.02.03	Mechanization of Crop Production / Механизация растениеводства		GC-2.1					
B1.O.02.04	Pests and Diseases / Вредители и болезни растений	GC-1.1; GC-1.2;						GC-7.1; GC-7.2;
B1.O.02.05	Breeding and Seed Production / Селекция и семеноводство							
B1.O.02.06	Plant Protection / Защита растений							GC-7.1; GC-7.2;
B1.O.02.07	Postharvest Management / Послеуборочная переработка	GC-1.2;		GC-3.1; GC-3.2;				
B1.V	Part formed by participants in educational relations							
B1.V.ED.01	Elective disciplines							
B1.V.ED.01.01	Marketing / Маркетинг	GC-1.3;	GC-2.2; GC-2.3;	GC-3.1; GC-3.2;		GC-5.2;		
B1.V.ED.01.02	Management / Менеджмент	GC-1.3;	GC-2.2; GC-2.3;	GC-3.1; GC-3.2;		GC-5.2;		

[illegible]

Code	Courses/modules that form students' competences	GENERAL PROFESSIONAL COMPETENCES						
		GPC-1	GPC-2	GPC-3	GPC-4	GPC-5	GPC-6	GPC-7
Block 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	Russian as a Foreign Language / Русский язык как иностранный							
B1.O.01.02	Information Technology / Информационные технологии	GPC-1.3;		GPC-3.2;				GPC-7.1; GPC-7.2;
B1.O.02	Variable component							
B1.O.02.01	Crop Production / Растениеводство	GPC-1.1; GPC-1.3;	GPC-2.1; GPC-2.2;					
B1.O.02.02	Soil Fertility Management / Управление почвенным плодородием	GPC-1.1; GPC-1.2; GPC-1.3;	GPC-2.1; GPC-2.2;	GPC-3.1; GPC-3.2;				
B1.O.02.03	Mechanization of Crop Production / Механизация растениеводства					GPC-5.2;		
B1.O.02.04	Pests and Diseases / Вредители и болезни растений	GPC-1.2; GPC-1.3;						GPC-7.2;
B1.O.02.05	Breeding and Seed Production / Селекция и семеноводство				GPC-4.1; GPC-4.2;			
B1.O.02.06	Plant Protection / Защита растений							GPC-7.1; GPC-7.2;
B1.O.02.07	Postharvest Management / Послеуборочная переработка	GPC-1.1; GPC-1.2; GPC-1.3;				GPC-5.1; GPC-5.2; GPC-5.3;	GPC-6.1; GPC-6.2; GPC-6.3	
B1.V	Part formed by participants in educational relations							
B1.V.ED.01	Elective disciplines							
B1.V.ED.01.01	Marketing / Маркетинг							
B1.V.ED.01.02	Management / Менеджмент							
Block 2.	Practice							

Code	Courses/modules that form students' competences	GENERAL PROFESSIONAL COMPETENCES						
		GPC-1	GPC-2	GPC-3	GPC-4	GPC-5	GPC-6	GPC-7
B2.O	Mandatory part							
B2.O.01	Core component							
B2.O.02	Вариативная компонента							
B2.O.02.01(P)	Technological Practice / Технологическая практика	GPC-1.2; GPC-1.3;		GPC-3.1; GPC-3.2;			GPC-6.2;	GPC-7.1; GPC-7.2;
B2.O.02.02(N)	Scientific Research Work / Научно-исследовательская работа	GPC-1.1; GPC-1.2; GPC-1.3;			GPC-4.1; GPC-4.2; GPC-4.3;			GPC-7.1; GPC-7.2;
B2.V	Part formed by participants in educational relations							
B2.V.01(Pd)	Undergraduate Practice / Преддипломная практика	GPC-1.1; GPC-1.2; GPC-1.3;		GPC-3.1; GPC-3.2;	GPC-4.1; GPC-4.2; GPC-4.3;			GPC-7.1; GPC-7.2;
Block 3.	Final State Examination							
B3.01(G)	Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена	GPC-1.1; GPC-1.2; GPC-1.3;	GPC-2.1; GPC-2.2;	GPC-3.1; GPC-3.2;	GPC-4.1; GPC-4.2; GPC-4.3;	GPC-5.1; GPC-5.2; GPC-5.3;	GPC-6.1; GPC-6.2; GPC-6.3;	GPC-7.1; GPC-7.2;
B3.02(D)	Preparation and Defence of Graduate Qualification Work / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы	GPC-1.1; GPC-1.2; GPC-1.3;	GPC-2.1; GPC-2.2;	GPC-3.1; GPC-3.2;	GPC-4.1; GPC-4.2; GPC-4.3;	GPC-5.1; GPC-5.2; GPC-5.3;	GPC-6.1; GPC-6.2; GPC-6.3;	GPC-7.1; GPC-7.2;
ED	Elective Disciplines							
ED.01	Russian Language / Русский язык							
ED.02	History of Religions in Russia / История религий России							
ED.03	Information Databases / Информационные базы данных							

Code	Courses/modules that form students'	PROFESSIONAL COMPETENCES
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	competences	PC-1	PC-2	PC-3.	PC-4	PC-5	PC-6	PC-7
Block 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	Russian as a Foreign Language / Русский язык как иностранный							
B1.O.01.02	Information Technology / Информационные технологии	PC-1.1;						
B1.O.02	Variable component							
B1.O.02.01	Crop Production / Растениеводство	PC-1.1;	PC-2.1; PC-2.2	PC-3.1	PC-4.1			
B1.O.02.02	Soil Fertility Management / Управление почвенным плодородием	PC-1.1;						
B1.O.02.03	Mechanization of Crop Production / Механизация растениеводства	PC-1.1;						
B1.O.02.04	Pests and Diseases / Вредители и болезни растений	PC-1.1;	PC-2.2;					
B1.O.02.05	Breeding and Seed Production / Селекция и семеноводство	PC-1.1;	PC-2.3;	PC-3.1;	PC-4.1;			
B1.O.02.06	Plant Protection / Защита растений	PC-1.1;	PC-2.2;	PC-3.2;	PC-4.1;			
B1.O.02.07	Postharvest Management / Послеуборочная переработка			PC-3.1; PC-3.2;				
B1.V	Part formed by participants in educational relations							
B1.V.ED.01	Elective disciplines							
B1.V.ED.01.01	Marketing / Маркетинг							
B1.V.ED.01.02	Management / Менеджмент							
Block 2.	Practice							
B2.O	Mandatory part							
B2.O.01	Core component							
B2.O.02	Вариативная компонента							
B2.O.02.01(P)	Technological Practice / Технологическая	PC-1.1;	PC-2.1; PC-	PC-3.1; PC-				

Code	Courses/modules that form students' competences	PROFESSIONAL COMPETENCES						
		PC-1	PC-2	PC-3.	PC-4	PC-5	PC-6	PC-7
	практика		2.2; PC-2.3;	3.2;				
B2.O.02.02(N)	Scientific Research Work / Научно-исследовательская работа	PC-1.1;	PC-2.3;	PC-3.1;	PC-4.1;			
B2.V	Part formed by participants in educational relations					PC-5.3		
B2.V.01(Pd)	Undergraduate Practice / Преддипломная практика	PC-1.1;			PC-4.1;			
Block 3.	Final State Examination							
B3.01(G)	Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена	PC-1.1;	PC-2.1; PC-2.2; PC-2.3;	PC-3.1; PC-3.2;	PC-4.1;			
B3.02(D)	Preparation and Defence of Graduate Qualification Work / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы	PC-1.1;	PC-2.1; PC-2.2; PC-2.3;	PC-3.1; PC-3.2;	PC-4.1;			
ED	Elective Disciplines							
ED.01	Russian Language / Русский язык							
ED.02	History of Religions in Russia / История религий России							
ED.03	Information Databases / Информационные базы данных							