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омация о владельце: Ястребов Олег Адександрович			
ность: Ректор Federal State Autono	mous Edu	cational Institutio	on of Higher Education
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	NUI	JA University	
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educational division (faculty	/institute/acad	lemy) as higher education	on programme developer
Approved at the meeting of the	Academic	Opened by order	of the Rector of
Council of RUDN University		RUDN Universit	y No. 313
Protocol No. 10			
<u>May 20, 2014</u>		June 07, 2024	ili
(date, month, year)		(date, month, year)	
PROFESSIONAL EDUC	CATION P	<b>ROGRAMME O</b>	F HIGHER EDUCATION
Field of Studies/ Speciality:			
	35.04.04	Agronomy	
Drofile/Specialization	field of studie	s / speciality code and ti	itle
Prome/ Specialisation:	Conoral	Agriculture	
	higher edu	Agriculture	
The Educational Programme is d Educational Standard of RUDN dated <u>May 21, 2021</u>	eveloped i N Universi	n compliance with ity, approved by O	: rder of the Rector No. <u>371</u>
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#### **1. EDUCATIONAL PROGRAMME GOAL (MISSION)**

The main goal of the program is to ensure high quality 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 in the training process based on integration and cooperation with employers and strategic partners.

## 2. EDUCATIONAL PROGRAMME RELEVANCE, SPECIFICITY, AND UNIQUENESS

The peculiarity of training masters in the direction 35.04.04 "Agronomy" of the specialization " General Agronomy" is that already during their studies in the master's program they have the opportunity to realize themselves in the field of business of innovative technologies.

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

Master's degree in the field of study 35.04.03 "Agronomy" specialization "General Agronomy" is preparing for a scientific research type of professional activity.

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

Further professional activity:

• agricultural holdings of Russian and foreign companies;

• leading Russian and global companies in the development, production and sale of plant protection products;

- experimental stations for plant protection;
- specialized research institutions;
- Federal State Institution "Rosselkhoztsentr" system;
- Customs Service for Phytosanitary Supervision;
- enterprises of the Federal State Budgetary Institution "All-Russian Plant Quarantine Center";
- representative offices of Russian and foreign insurance companies. Graduates of this program have a universal set of knowledge,

since the scope of interests includes almost all processes occurring at the specialized enterprise, and the knowledge gained allows solving the following professional tasks:

• programming of agricultural crop yields for various levels of agricultural technologies;

• development and implementation of projects for environmentally friendly methods and technologies for the production of high-quality plant products, taking into account the properties of agricultural landscapes and economic efficiency;

• design of adaptive landscape farming systems for various organizational forms of the agro-industrial complex and their development;

• providing consultations on innovative technologies in agronomy;

• collection, processing, analysis and systematization of scientific and technical information, domestic and foreign experience;

- organization, implementation and analysis of experimental results;
- Creation optimization models technologies cultivationagricultural crops, plant protection systems, varieties;
- preparation of scientific and technical reports, reviews and scientific

publications based on the results of completed research.

### **5. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS**

Potential applicant for the main educational program in the field of training 35.04.04 "Agronomy" specialization "General Agriculture"

/ General Agronomy" must be prepared for activities that require in-depth agricultural, scientific research and pedagogical training and have the following competencies:

• general cultural competencies: the ability to think abstractly, analyze, synthesize; readiness to act in non-standard situations, to bear social and ethical responsibility for decisions made; readiness for self-development, self-realization, and the use of creative potential;

• general professional competencies: readiness to communicate orally and in writing in Russian and foreign languages to solve problems of professional activity; readiness to lead a team in the sphere of their professional activity, tolerantly perceiving social, ethnic, religious and cultural differences; the ability to make organizational and managerial decisions;

• professional competencies in the field of scientific research activities: the ability to generalize and critically evaluate the results obtained by domestic and foreign researchers, identify promising areas, and draw up a research program; the ability to justify 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 conducted research to the scientific community in the form of an article or report.

# 6. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

6.1. The educational program is implemented with elements of electronic learning/distance educational technologies (electronic courses on the TUIS platform).

6.2. The language of implementation of the educational program is English.

6.3. Program Not provides for education disabled people And Withlimited health capabilities.

6.4. The educational program of higher education is implemented by the Federal State Autonomous Educational Institution of Higher Education "Peoples' Friendship University of Russia named after Patrice Lumumba".

6.5. Information O planned bases conducting educational/industrial practices and research:

Practice	Base for conducting practice
Technological practice (industrial,	RUDN, JSC Shchyolkovo Agrokhim, LLC
on-site)	"Syngenta", VNIIKR, VNII Agrochemistry,

Practice	Base for conducting practice
Research work (R&D,	Federal Research Center "Nemchinovka",
stationary/field)	Federal Research Center for Vegetable
Pre-graduation practice (industrial,	Growing, VILAR, PJSC "PhosAgro"
in-patient)	

### 7. CHARACTERISTIC

### PROFESSIONALACTIVITIES OF THE GRADUATE OF THE OP

7.1. The area and/or sphere of professional activity of a graduate who has mastered the OP HE, in which he/she can carry out his/her professional activity:

13 Agriculture:

in the field of organization and execution of works on the production of plant products.

7.2. Types of professional activity tasks that a graduate is prepared to solve as part of mastering the educational program of higher education: research, production and technological.

7.3. List of generalized work functions and work functions related to the professional activities of a graduate of the OP VO, in accordance with which the program was developed:

Code and	Gene	eralized labor functio	Labor functions			
name prof. standard	cod e	Name	qualifica tion level	Name	code	level (sub.) qual.
234 Agronom ist	D	Management of plant production	7	Conducting researchworks in the field of agronomy in production conditions	D/03.7	7

## 8. REQUIREMENTS TO THE RESULTS OF MASTERING THE OP HE

8.1. Upon completion of the OP VO, the graduate must have the following universal competencies (UC):

Code and name of the UK	Code and name of the indicator of achievement of competence
UC-1Able to carry out a critical analysis of problematic situations based on a systems approach, develop	UC-1.1 Performs a search for the necessary information, its critical analysis and generalizes the results of the analysis to solve the assigned task
an action strategy	UC-1.2 Uses a systematic approach to solve assigned tasks
	UC-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 relationships between participants in this activity
UC-2 Capable of managing a project at all stages of its life cycle	UC-2.1 Develops a project concept 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

	UC-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 the project participants UC-2.3 Suggests possible ways (algorithms) for implementing the project results into practice (or carries out its implementation)
UC-3 Able to organize and manage the work of a team, developing a team strategy to achieve the set goal	UC-3.1 Develops a cooperation strategy and on its basis on the basis of organizing the work of the team to achieve the set goal UC-3.2 Plans team work, distributes tasks and delegates authority to team members, organizes discussion of different ideas and opinions
UC-4 Able to apply modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction.	UC-4.1 Demonstrates the integrative skills necessary for writing, translating and editing various academic texts (abstracts, essays, reviews, articles, etc.) UC-4.2 Presents the results of academic and professional activities in various scientific events, including international ones
UC-5 Able to analyze and take into	UC-4.3 Demonstrates integrative skills, necessary for effective participation in academic and professional discussions UC-5.1 Demonstrates an understanding of the characteristics
account cultural diversity in the process of intercultural interactions	of different cultures and nations UC-5.2 Builds social interaction, taking into account the general and specific features of different cultures and religions
UC-6 Able to define and implement priorities of one's own activities and ways of improving them based on self-assessment	UC-6.1 Assesses his/her resources and their limits (personal, situational, temporary), uses them optimally to successfully complete the assigned task tasks
	UC-6.2 Plans a professional trajectory taking into account the specifics of both professional and other types of activity and the requirements of the labor market
UC-7 Able to search for the necessary sources of information and data, perceive, analyze, remember	UC-7.1 Conducts an assessment of information, its reliability, builds logical conclusions based on incoming information and data
and transmit information using digital means, as well as using algorithms when working with data obtained 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	UC-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 assigned tasks

8.2. Upon completion of the OP VO, the graduate must have the following general professional competencies (GPC):

Code and name of the OPK	Code and name of the indicator of achievement of competence
GPC-1 is capable of solving problems	GPC-1.1 Demonstrates knowledge of the basic methods of
of development of the region	analyzing the achievements of science and production in agronomy

professional activity and (or)	GPC-1.2 Uses methods for solving problems of agronomy
organization based on the analysis of	development based on the search and analysis of modern
scientific and industrial	achievements of science and production
achievements;	GPC-1.3 Uses available technologies, including information
	and communication technologies, to solve problems
	professional activity in agronomy
GPC-2 Capable of transmitting	GPC-2.1 Knows modern educational technologies
professional knowledge taking into	vocational education (vocational training)
account pedagogical methods;	
	GPC-2.2 Transfers professional knowledge in the field of
	agronomy, explains current problems and trends in its
	development, modern production technologies
	plant products
GPC-3 is capable of using modern	GPC-3.1 Analyzes methods and ways of solving problems in
methods of solving problems in the	developing new technologies in agronomy
development of new technologies in	GPC-3.2 Uses information resources, scientific achievements
the professional	and practice in the development of new technologies in
activities;	agronomy
GPC-4 Capable of conducting	GPC-4.1 Analyzes methods and ways of solving research
scientific research, analyzing results	problems
and preparing reporting documents;	GPC-4.2 Uses information resources, scientific, experimental
	and instrumental base for
	conducting research in agronomy
	OPC-4.3 Formulates the results obtained in the course of
CDC 5 Conchie of comprise out	Solving research problems
GPC-5 Capable of carrying out	GPC-5.1 Has knowledge of methods of economic analysis and
iustification of projects in	GPC 5.2 Analyzas the main production and economia
professional activities:	indicators of the project in agronomy
professional activities,	GPC-5.3 Develops proposals for increasing
	project efficiency in agronomy
GPC-6 is canable of managing teams	GPC-61 Able to work with information systems and databases
and organizing production processes.	on personnel management issues
	GPC-6.2 Defines the tasks of the structural personnel
	divisions based on the goals and strategy of the organization
GPC-7 Able to master the tools for	GPC-7.1 Has a working toolkit for working with large
working with large arrays of	arrays of structured and unstructured information
structured and unstructured	
information, use modern digital	GPC-7.2 Uses modern digital methods of processing, analysis,
methods of processing, analysis,	interpretation and visualization of data in order to solve the
interpretation and visualization of	assigned tasks
data in order to solve the tasks of	
professional and scientific research	
activities in	
field of agronomy	

8.3. List of professional competencies (PC) that a graduate who has fully mastered the educational program of higher education must possess:

PC code and name	Code and name of the indicator of achievement of competence
PC-1 Capable of organizing	PC-1.1 Draws up a research program to study the
experiments	effectiveness of innovative technologies (elements
(field experiments) according to the	technologies), varieties and hybrids, develops methods
assessment	

the effectiveness of innovative	conducting experiments, mastering new research methods
technologies (elements of	
technology), varieties and hybrids in	
production conditions	
PC-2 Capable of developing and	PC-2.1 Determines the planned yield of agricultural crops
implementing environmentally	taking into account the available natural and production
friendly methods and technologies	resources
for the production of high-quality	using generally accepted calculation methods
plant products, taking into account	PC-2.2 Organizes quality control and safety of plant products
the properties of agricultural	
landscapes and economic efficiency	PC-2.3 Justifies specializations and types
	grown products in an agricultural organization
PC-3 Capable of identifying areas for	PC-3.1 Identifies promising areas for increasing the efficiency
improving and increasing the	of crop production
efficiency of crop production	
technologies based on scientific	PC-3.2 Carries out operational regulation of the course of
achievements, best practices of	production of plant products
domestic and	
foreign manufacturers	
PC-4 Capable of creating models of	PC-4.1 Creates models of agricultural crop cultivation
agricultural crop cultivation	technologies, plant protection systems, varieties
technologies,	
plant protection systems, varieties	

**9. COMPETENCE MATRIX**, formed in students during the development of the educational program of higher education "General Agriculture / General Agronomy", in the field of training 35.04.04. Agronomy:

Name of disciplines/modules,		GENERAL PROFESSIONAL COMPETENCES							
e Cod	forming competencies in students	UC-1	UC-2	UC-3	UC-4	UC-5	UC-6	UC-7	
Block 1. Discipli	nes (modules)						•		
Mandatory part									
B1.O.01	Basic component								
B1.O.01.01	Russian as a Foreign Language / Russian as a Foreign Language				UC-4.1; UC-4.2; UC-4.3	UC-5.1; UC-5.2			
B1.O.01.02	Information Technology / Information	UC-1.1;						UC-7.1;	
	technologies	UC-1.2						UC-7.2	
B1.O.02	Variable component								
B1.O.02.01	Crop Production / Crop Production	UC-1.3	UC-2.3						
B1.O.02.02	Soil Fertility Management soil fertility	UC-1.1; UC-1.3	UC-2.1					UC-7.2	
B1.O.02.03	Mechanization of Crop Production / Mechanization of plant growing		UC-2.1						
B1.O.02.04	Pests and Diseases / Pests and Diseases plants	UC-1.1; UC-1.2						UC-7.1; UC-7.2	
B1.O.02.05	Breeding and Seed Production / Selection and seed production								
B1.O.02.06	Plant Protection / Plant Protection							UC-7.1; UC-7.2	
B1.O.02.07	Postharvest Management / Postharvest processing	UC-1.2		UC-3.1; UC-3.2					

The part formed	by the participants of educational relations							
B1.V.DV.01	Elective disciplines							
B1.V.DV.01.01	Marketing / Marketing	LIC 1 2	UC-2.2;	UC-3.1;		LIC 5 2		
		00-1.5	UC-2.3	UC-3.2		00-5.2		
B1.V.DV.01.02	Management / Management	UC-13	UC-2.2;	UC-3.1;		UC-5.2		
		00-1.5	UC-2.3	UC-3.2		00-5.2		
<b>Block 2. Practice</b>	,							
Mandatory part								
B2.O.01	Variable component							
B2.O.01.01(N)	Technological Practice / Technological Practice	UC-1.1;	UC-2.1;				UC-61·	
		UC-1.2;	UC-2.2;				UC-6.2	
		UC-1.3	UC-2.3;				00 0.2	
B2.O.02	Basic component							
B2.O.02.01(P)	Scientific Research Work / Scientific Research				UC-4.1;			UC-71.
	Work	UC-1.2			UC-4.2;			UC <b>-</b> 7 2
					UC-4.3			00 7.2
The part formed	by the participants of educational relations							
B2.B.01(Pd)	Undergraduate Practice / Pre-graduation practice	UC-1.1;	UC-2.1;		UC-4 1·		UC-6 1·	UC-7 1·
		UC-1.2;	UC-2.2;		UC-4 3		UC-6 2	UC-7 2
		UC-1.3	UC-2.3		001.5		00 0.2	007.2
Block 3. State fin	al certification	1	T	1	1	T	1	
B3.01(G)	Preparation for Passing and Passing the State	UC-1.1;	UC-2.1;		UC-4.1;	UC 5 1·	UC 61	UC 7 1.
	Exam / Preparation for and passing the state	UC-1.2;	UC-2.2;	UC-3.1, $UC-3.2$	UC-4.2;	UC - 5.1,	UC - 6.1	UC 7.1,
	exam	UC-1.3	UC-2.3	00-3.2	UC-4.3	00-5.2	00-0.2	00-7.2
B3.02(D)	Preparation and Defense of Graduate	UC 1 1						
	Qualification Work / Registration, preparation	UC-1.1;	UC-2.1;	UC-3.1;	UC-4.1;	UC-5.1;	UC-6.1;	UC-7.1;
	for the defense procedure and defense of the	UC-1.2;	UC-2.2;	UC-3.2	UC-4.2;	UC-5.2	UC-6.2	UC-7.2
	graduation thesis	UC-1.3	UC-2.5		00-4.3			
	gualification work							

	Name of the disciplines/modules that	GENERAL PROFESSIONAL COMPETENCES						
Cod e	develop competencies students	GPC-1	GPC-2	GPC-3	GPC-4	GPC-5	GPC-6	GPC-7
Block 1. Discipli	nes (modules)							·
Mandatory part								
B1.O.01	Basic component							
B1.O.01.01	Russian as a Foreign Language / Russian language as a foreigner							
B1.O.01.02	Information Technology / Information technologies	GPC-1.3		GPC-3.2				GPC-7.1 GPC-7.2
B1.O.02	Variable component							
B1.O.02.01	Crop Production / Crop Production	GPC-1.1; GPC-1.3	GPC-2.1; GPC-2.2					
B1.O.02.02	Soil Fertility Management	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 /					GPC-5.2		
	Mechanization of plant growing					01 0 5.2		
B1.O.02.04	Pests and Diseases / Pests and Diseases plants	GPC-1.2; GPC-1.3						GPC-7.2
B1.O.02.05	Breeding and Seed Production / Selection and seed production				GPC-4.1; GPC-4.2			
B1.O.02.06	Plant Protection / Plant Protection							GPC-7.2
B1.O.02.07	Postharvest Management / Postharvest processing	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	
The part formed by the participants of educational relations								
B1.V.DV.01	Elective disciplines							
B1.V.DV.01.01	Marketing / Marketing					GPC-5.1; GPC-5.2; GPC-5.3		

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B1.V.DV.01.02	Management / Management						GPC-6.1; GPC-6.2;	
							GPC-6.3	
Block 2. Practice								
Mandatory part								
B2.O.01	Variable component							
B2.O.01.01(N)	Technological Practice / Technological	GPC-1.2;		GPC-3.1;			GPC 62	GPC-7.1
	practice	GPC-1.3		GPC-3.2			GPC-0.2	GPC-7.2
B2.O.02	Basic component							
B2.O.02.01(P)	Scientific Research Work / Scientific Research	GPC-1.1;			GPC-4.1;			GPC 71
	Work	GPC-1.2;			GPC-4.2;			GPC-7.2
		GPC-1.3			GPC-4.3			010 7.2
The part formed by the participants of educational relations								
B2.B.01(Pd)	Undergraduate Practice / Pre-graduation practice	GPC-1.1;		GPC-3.1:	GPC-4.1;			GPC-7.1
		GPC-1.2;		GPC-3.2	GPC-4.2;			GPC-7.2
	1 ,• <i>(</i> • ,•	GPC-1.3			GPC-4.3			
Block 3. State fir	nal certification	1	1	1	I	1	1	
B3.01(G)	Preparation for Passing and Passing the State	GPC-1.1;	GPC-21.	GPC-3 1	GPC-4.1;	GPC-5.1;	GPC-6.1;	GPC-71
	Exam / Preparation for and passing the state	GPC-1.2;	GPC-1.2; $GPC-2.2$ $GPC$	GPC-3.2	GPC-4.2;	GPC-5.2;	GPC-6.2;	GPC-7.2
	exam	GPC-1.3	01 0 2.2	0100.2	GPC-4.3	GPC-5.3	GPC-6.3	01 0 / 12
B3.02(D)	Preparation and Defense of Graduate	CDC 1 1.			CDC 4.1.	CDC 5 1.	$CDC \in I_{1}$	
	Qualification Work / Registration, preparation	$GPC_{-1}$ 2.	GPC-2.1; GPC-2.2	GPC-2.1; GPC-3.1; GPC-2.2 GPC-3.2	GPC-4.1;	GPC-5.1;	2; GPC-6.2; 3 GPC-6.3	GPC-7.1 GPC-7.2
	for the defense procedure and defense of the	GPC-1.2, GPC-1.3			GPC-3.2 GPC-4.3	GPC-5.3		
	graduation thesis	010-1.5						
	qualification work							

Cod	Name of disciplines/modules that develop students'	PROFESSIONAL COMPETENCES					
e	competencies	PC-1	PC-2	PC-3	PC-4		
Block 1. Disciplines (modules)							
Mandatory part							
B1.O.01	Basic component						
B1.O.01.01	Russian as a Foreign Language / Russian as a Foreign Language						
B1.O.01.02	Information Technology / Information Technology	PC-1.1					
B1.O.02	Variable component						
B1.O.02.01	Crop Production / Crop Production	PC-1.1	PC-2.1; PC-2.2	PC-3.1	PC-4.1		
B1.O.02.02	Soil Fertility Management / Soil Fertility Management fertility	PC-1.1					
B1.O.02.03	Mechanization of Crop Production / Mechanization plant growing	PC-1.1					
B1.O.02.04	Pests and Diseases / Pests and Plant Diseases	PC-1.1	PC-2.2				
B1.O.02.05	Breeding and Seed Production / Selection and seed production	PC-1.1	PC-2.3	PC-3.1	PC-4.1		
B1.O.02.06	Plant Protection / Plant Protection	PC-1.1	PC-2.2	PC-3.2	PC-4.1		
B1.O.02.07	Postharvest Management / Postharvest processing			PC-3.1; PC-3.2			
The part formed by the	participants of educational relations						
B1.V.DV.01	Elective disciplines						
B1.V.DV.01.01	Marketing / Marketing						
B1.V.DV.01.02	Management / Management						
Block 2. Practice							
Mandatory part							
B2.O.01	Variable component						
B2.O.01.01(N)	Technological Practice / Technological Practice	PC-1.1	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2			

B2.O.02	Basic component					
B2.O.02.01(P)	Scientific Research Work / Scientific Research Work	PC-1.1	PC-2.3	PC-3.1	PC-4.1	
The part formed by the participants of educational relations						
B2.B.01(Pd)	Undergraduate Practice / Pre-graduation practice	PC-1.1			PC-4.1	
Block 3. State final certification						
B3.01(G)	Preparation for Passing and Passing the State Exam	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 Defense of Graduate Qualification Work / Preparation, preparation for the defense procedure and defense final qualifying work	PC-1.1	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2	PC-4.1	