implementation of this educational program is to increase the rating of KazNARU and the formation of an effective image, the maintenance of which affects the strengthening of positions in the educational services market, and indicates the level of education development in the country, which will significantly affect the image of domestic education.

As a result of the implementation of the EP Development plan, it is expected to ensure socio-economic effects:

- improving the quality of professional education and, as a result, the competitiveness of specialists in the field of agronomy;

- training graduates who meet the needs of potential employers in the agricultural sector;

- increasing the role of employers in the training of professional personnel;

- increasing the demand for qualified personnel, optimizing their age structure;

- expanding the opportunities for professional self-realization of young people;

- updating of the educational and material base (educational, laboratory, computer and technological base that meets modern requirements and standards).

The socio-economic effect of the implementation of the EP development plan will reflect the definition of stimulating parameters leading to an increase in the percentage of the department's settlement, the creation of motivation systems.

As a result of the implementation of the educational program, scientific developments and recommendations of the scientists of the department will be introduced into the educational process.

10 Graduate model for the educational program "Agronomy"

Employment of university graduates has become a key indicator of the work of universities in recent years from the standpoint of assessing the effectiveness of their functioning. At the same time, the state of the graduate employment process accumulates a whole range of issues that require solutions, including the demand for graduates in the labor market, the compliance of the level of training of specialists in higher education with the needs of the labor market, determining the directions of development of higher education and the formation of more effective mechanisms for its partnership with employers in order to improve the quality of training of specialists.

The solution of these issues is directly related to increasing the efficiency of employment of university graduates, ensuring their adaptation in the labor market, which should be based on the interaction of the higher education system and employers within the framework of further development and improvement of the labor market infrastructure, which should be aimed at comprehensive support of graduates on issues of assistance in employment and professional navigation. In this regard, the relevance of issues of increasing the efficiency of employment of KazNARU graduates increases in order to ensure the level of compliance of their training with the requirements of the agricultural sector of the economy.

One of the important factors influencing the professional training of personnel is the rapidly changing professional competencies under the influence of digitalization, which are introduced into educational standards and programs for the professional training of specialists with some delay. As a result, there is a gap in the level of competence of graduates and the requirements of employers, which characterizes the main problem of the system for training specialists with higher education: its low correlation with the requests

and needs of employers.

In recent years, the percentage of employment in the OP "Agronomy" was:

Code and names of educational programs	Release	by specialty	not in specialty	Continues studies in master's or doctoral studies	% Total employ- ment	% by specialty	% not in specialty
6B08101-«Agronomy»	23	11	8	1	87%	61%	26%
7M08101-«Agronomy»	6	2	3	-	83%	50%	33%

Table 5. Employment of graduates of the EP Agronomy 2024

The formation of the graduate model begins to take shape during the training of students, taking into account the following factors: the effectiveness of the selection of applicants; the potential of KazNARU; the content and organization of the educational process; the degree of use of advanced learning technologies; the professionally significant environment of the university, etc.

The model of a university graduate embodies the idea of a student who has completed the educational process and is a fully formed personality with not only certain competencies, but also the necessary professionally and socially significant personal qualities.

One of the fundamental approaches to creating a graduate model is the competence approach, in which competence/competence becomes the main element of the graduate's personality model.

The graduate model should serve as a basis for the organization of professional training of students at the university on an equal basis, taking into account the requirements of state standards, the possibilities and limitations of the education system, as well as the "entrance characteristics" of applicants.

Such a model should be dynamic with the constant possibility of adjustment in accordance with changes in economic sectors. To ensure the relevance of the model, the update rate of the model should not be less than the rate of change of the factors determining it.

The graduate model of a university is a rather capacious and diverse concept.

It can be defined in different ways – as:

1) a set of defining knowledge and skills acquired in the learning process;

2) an information array, the active assimilation of which is necessary for effective work in production;

3) a training system that allows graduates to successfully implement all types of business (production) contacts with the environment (information, technological, personnel, etc.):

4) a detailed description of all professional and socio-psychological qualities of a university graduate;

5) a formalized list of all job functions and responsibilities;

6) a system of skills that allow you to solve standard and non-standard situations that arise during production activities;

7) description of the personality qualities of a successful professional; his age, gender, education, work experience in the specialty, knowledge of modern information technologies, knowledge of foreign languages, etc.;

8) display of the process of interaction of certain types of trainees with a professionally significant environment.

The learning process should be structured in such a way that, given the existing characteristics of applicants, the characteristics of a university graduate are as appropriate as possible to the professional model, reflecting the current requirements for specialist training.

	Bachelor's degree	Master's degree	Philosophy Doctor degree	
	6B08101-«Agronomy» FP	7M08101-«Agronomy» FP	8D08101-«Agronomy» FP	
	- conducting visual observations and	- study of modern methods of	- identifying and formulating	
	records of the growth and	teaching disciplines in	current scientific problems and	
	development of agricultural crops;	agronomy;	research programs in agronomy;	
	- accounting and control over the	- use of innovative teaching	- laying down experiments,	
	agroecological safety of agricultural	technologies in the process of	processing, analyzing and	
	products when using herbicides,	scientific and pedagogical	systematizing information on the	
	fungicides and insecticides;	activity;	topics of the research being	
	- accounting and analysis, their	- development of scientifically	conducted;	
	sequences, timing and duration;	based guidelines;	-preparing reports,	
	- rationally and effectively use land,	- laying down experiments,	publications on current issues in	
	other resources:	systematization of information	the agro-industrial complex:	
	- have skills in applying knowledge	on the topics of the conducted	- planning training sessions in	
	of the economic, political, national	research;	accordance with the curriculum	
	and cultural characteristics of	- identification and formulation	and based on its strategy;	
	countries and regions, foreign	of current scientific problems	- evaluating pedagogical results;	
	partners of agricultural activities in	and programs of scientific	- defining specific pedagogical	
	the Republic of Kazakhstan and	research in agronomy;	tasks, anticipating learning	
	international law, compliance with	- preparation of reports,	outcomes;	
_	formalities and prescribed	recommendations and scientific	- selecting and using appropriate	
and	sending agricultural products:	the agro-industrial complex:	technology	
rst	- develop schemes of modern crop	- organization and conduct of	teennology.	
apı	rotation for farms and other	agrochemical analyses of plant-		
l uī	enterprises, taking into account the	based feed;		
anc	specialization of farms, land and	- organization and conduct of		
M	soil-climatic resources;	laboratory quality control of soils		
kno	- draw up technological maps for the	and grounds;		
1	cultivation of agricultural crops with	- development of optimal sowing		
	the introduction of elements of	patterns, taking into account the		
	- calculate the need of farms for	and plant crops to maximize		
	seeds fertilizers pesticides fuels	vields and resource efficiency.		
	and lubricants, agricultural	- work with advanced methods		
	machinery and tools; - adjust	and technologies in the field of		
	agricultural machinery and	agriculture, such as		
	equipment, set seeding rates for	digitalization, the use of drones,		
	agricultural crops, fertilizers,	sensors and automated control		
	pesticides, irrigation rates, etc.;	systems to optimize production		
	- organize proper and timely post-	processes;		
	other agricultural products in	- development of business plans,		
	storage facilities:	product market optimization of		
	- organize biotechnological	logistics and supplies to increase		
	processes in crop production;	the competitiveness of		
	- organize the use of	agricultural enterprises.		
	biotechnological methods in the			
	selection and seed production of			
	agricultural crops;			
	- ensure the development of			
	biotechnological processes and the			

	production of biotechnological		
	products for plant purposes:		
	- be able to conduct marketing		
	research in order to improve the		
	afficiency of the enterprise		
	(organization) attract investment		
	(organization), attract investment,		
	expand the scope of services, etc.,		
	- plan, organize and control the		
	activities of the enterprise, including		
	having the skills to manage the		
	information flow, as well as time		
	and other resources;		
	- assess the prospects for the		
	development of the economy in a		
	market environment, determine the		
	optimal ratio of crop production and		
	livestock farming in order to		
	continuously maintain production		
	and improve the efficiency of the		
	economy.		
	- have the skills to organize and	- in the analysis of information	- plan classes in accordance with
	develop an environmental,	materials in the field of	the curriculum and based on its
	ecologically safe system of	agriculture and use them in their	strategy;
	farming, conduct an examination	professional activities;	 evaluate pedagogical results;
	of plant products for the presence	- on issues of organizing and	- define specific pedagogical
	of hazardous harmful substances:	managing the production	tasks, anticipate learning
	- have the skills to apply	process;	outcomes;
	knowledge of the economic	- solving production problems	- select and use appropriate
	knowledge of the economic,	within the framework of the	teaching aids to build a teaching
	political, national and cultural	implementation of work to	technology;
	characteristics of countries and	improve the productivity of	- develop students' skills in
	regions, foreign partners of	agricultural crops and their	working with educational,
Ħ	agricultural activities in the	qualities;	specialized, scientific literature,
ter	Republic of Kazakhstan and	- in the correct solution of	manuals;
be	international law, compliance	agronomic and other issues in	- teach students to independently
uo	with formalities and prescribed	extreme situations;	conduct experiments and
Ŭ D	procedures when receiving and	- planning and organizing the	generalize the results obtained.
þ	sending agricultural products.	work of the nursery;	
	- have the skills to use the state	- performing basic and auxiliary	
	Pussion English and one more	work on irrigation of field crops	
	Russian, English and one more	in the territory assigned to them;	
	European or Asian language in	- regulation of the water regime	
	professional activities, including	of the soil during irrigation and	
	fluency in special agricultural	cultivation of crop products in	
	terms;	accordance with the needs of the	
	- have a solid knowledge of the	crops being grown;	
	code of corporate ethics.	- safety of farm equipment in the	
	negotiation techniques, as well as	nursery, uniform distribution of	
	the basics of business	resources, management of	
	communication	agrotechnical measures.	
	communication.		

Head of the department

«Agronomy, breeding and biotechnology»

Dean of the Faculty of «Agrobiology»

Alyof Y.Zhanbyrbaev E.Abildaev