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1 Passport for the development plan of the 6B08105 «Advanced agronomic science» EP

Passport of the educational program development plan 6B08105 "Advanced agronomic science" for 2024-2028

1	The grounds for developing a development plan for the EP	The joint educational program was developed jointly with AgroParisTech scientists (Institut des sciences et industries du vivant et de l'environnement AgroParisTech), in accordance with the Memorandum of Understanding (30.01.2019), reviewed at the meeting of the Department of Agriculture and Crop Production Protocol No. 1 dated August 26, 2022, approved by the Council of the Faculty of Agronomy Protocol No.1 dated August 27, 2022, approved by the decision of the Academic Council (Protocol No. 19 dated August 31, 2022).
2	Main developers of the EP development plan	Members of the Academic Committee: - Stybaev G.J. (KATIU), Amantaev B.O. (KATIU), Kipshakbayeva G.A. (KATIU), FrancisDorra (AgroParisTech), Bruno Anselma (AgroParisTech), Michel Aubert (AgroParisTech). Invited: Kakimzhanova Almagul Apsalyamovna, Doctor of Biological Sciences, Professor, Head of the Laboratory of Biotechnology and Plant Breeding, RSE "National Center of Biotechnology" of the Committee of Science of the Ministry of Internal Affairs of the Republic of Kazakhstan; Ashirbekova Inkar Adilbekovna, doctoral student 2 K. OP "Genetics and breeding of agricultural crops" KazATIU named after S.Seifullin; Pavel Vasilyevich Lushchak, Director of Naydorovskoye LLP. All actions necessary for the revision of the joint educational program "Advanced agronomic Science" are coordinated with the developers from the partner university.
3	Time frame for implementing the development plan	2024 - 2028
4	Volume and sources of financing	The state budget
5	Expected final results of the implementation of the EP development plan	bachelor's degree in Agronomy with in-depth study of fundamental disciplines (biology, chemistry, mathematics, physics, IT), for the development of professional competencies in the scientific field, as well as for continuing education in master's degree programs at world universities

2 Analytical justification for the «Advanced agronomic science» program

2.1 Information about the educational program

The joint educational program 6B08105 "Advanced Agronomic Science" (2022 introduction) was created with the Institut des sciences et industries du vivant et de l'environnement AgroParisTech (AgroParisTech), organized on January 1, 2007, founder of the French Ministry of Agriculture, Institut agronomique, veterinaire et forestier de France "Agreenium". Chairman of the Board of Directors Pascal Vinet. AgroParisTech is a top university in France, which belongs to the highest and most prestigious schools of the Grand Ecole.

The level of education of the joint educational program 6B08105 "Advanced agronomic science" - Bachelor's degree (6), four years of study. The number of credits of SOP 6B08105 "Advanced agronomic science" is 240 ECTS (duration of study is 8 semesters). The requirements for applicants of SOP 6B08105 "Advanced agronomic science" comply with the requirements of the legislation of the Republic of Kazakhstan.

The educational program will allow you to gain in-depth knowledge in the academic environment with the possibility of applying them while continuing the postgraduate education program at domestic and international universities.

A feature of the implemented program is to provide training for specialists with in-depth fundamental knowledge, which is the basis of professional competencies in accordance with the requirements of employers in the field of agriculture and related industries in the field of Agronomy.

A distinctive feature of the educational program: joint educational program with Agroparizhtech - Paris Institute of Technology for Life Sciences, Food and Environment (France).

The uniqueness of the new educational program is the strengthening of basic knowledge using an interdisciplinary approach to master professional disciplines in the field of training.

The educational program "6B08105 Advanced Agronomic Science" was developed in accordance with the classifier of areas of training with higher and postgraduate education (Approved by Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 569 dated October 13, 2018) and coordinated with the Dublin descriptors and the European Qualifications Framework.

The educational program is focused on the training of specialists and scientific and pedagogical personnel, and the transfer of scientific results to the relevant sector of the economy based on scientific achievements, both the results of their own research and world science.

The educational program is developed on the basis of a modular system for studying disciplines and consists of 12 modules. The total volume of theoretical undergraduate education is 242 credits, including the cycle of general education disciplines includes 56 credits, the cycle of basic disciplines - 121 credits, the cycle of core disciplines - 53 credits and the final certification is 12 academic credits.

2.2 Information about students

The Department of Agriculture and Crop Production of the Agronomic Faculty of the Kazakh Agrotechnical Research University named after S.Seifullin is graduating in the field of Agronomy.

In the 2023-2024 academic year, the contingent of students studying at the OP "Advanced Agronomic Science" is 16, of which 7 students in the 1st year and 9 students in the 4th year.

2.3 Internal conditions for the development of the «Advanced agronomic science» educational program

Non-profit Joint Stock Company "Kazakh Agrotechnical Research University named after S.Seifullin" (hereinafter - S.Seifullin KATIU) is a subject of higher professional education of the Republic of Kazakhstan and operates on the basis of the Charter approved by the decision of the sole shareholder of the non-profit joint Stock Company and the National Agrarian Scientific and Educational Center No. 2 dated 05.02.2018, certificate of state registration re-registration of a legal entity No.27738-1901-AK dated 07/10/2007

Today, KATIU is a multidisciplinary university with its own established scientific schools, thanks to which the basis of the current teaching staff has been created.

The research activities of the students of the Department of Agriculture and Crop Production are carried out continuously within the framework of scientific programs and projects. As a result, the quality of training of specialists with higher education that meets their needs in a market economy is improving; the skills of creative professional thinking are formed through the development of scientific methods of cognition and research, as well as the unity of education (study and upbringing), scientific and practical process is ensured; conditions (legal, economic, organizational, resource, etc.) are created and developed, providing an opportunity for each student to realize his right to creative personal development, to participate in scientific research and scientific and technical creativity. At the republican competition of students' research works organized by the Ministry of Internal Affairs of the Republic of Kazakhstan, a 2nd-year student, OP 6B080102-"Breeding and seed production" Perdebek S. distinguished herself among the other participants by receiving the second place (scientific supervisor Rysbekova A.B.). On September 22, 2023, an International scientific and practical conference "Problems of desertification of the Territory of the Republic of Kazakhstan and ways to solve them", dedicated to the 80th anniversary of the Candidate of Biological Sciences of Al-Farabi Kazakh National University, associate professor. Professor Ametov Abibulla Ametovich, "Breeding and seeds" of the Faculty of Agronomy of the Department of Agriculture and Crop Production Samal Askharkvina, 3rd year student of the BBB group 01-077-21-02, made a presentation on "Features of the development of the first root system of wheat varieties in drought conditions" and took 1st place. On March 14, 2024, the S.Seifullin KAZATIU "ZHIGIT SULTANY-2024" competition was held, where our 1st year student Ergesh Danial, surprising the jury members with his talent, took 1st place.

Over the years of its existence, over 60 thousand highly qualified specialists have been trained from the walls of the university for various branches of the agro-industrial complex of the country, who have made and continue to make a worthy contribution to the development of the state's economy with their selfless work. The University is rightfully proud of its graduates, among them employees of the Presidential Administration and the Office of the Prime Minister, deputies of the Senate and Mazhilis of the Parliament of the Republic of Kazakhstan, ambassadors, prominent scientists, candidates and doctors of sciences, Akims of regions, cities and districts, heads of large enterprises and agricultural formations, specialists in various fields of the national economy.

2.4 Characteristics of the surrounding society

The priority direction in the development of the educational program is education focused on the personality of the student, revealing his individual abilities, turning the student into an active and interested participant in the educational process.

The educational environment in which the formation of future specialists in the field of soil science and agrochemistry takes place is the interconnection of conditions that ensure the formation of a personality capable of active creativity in various fields of fundamental and applied sciences.

The basis of the educational environment is its social component, in relation to educational programs in the field of "Agronomy" – it is more than 65 years of tradition and

image of the Kazakh Agrotechnical Research University named after S.Seifullin, mutual responsibility, moral and emotional climate; social support for students, extracurricular activities (creative teams, sports sections, scientific communities, etc.). One of the key components is also an intellectually developing environment: modern technologies of developmental learning (interactive teaching methods), a system of electives (business games, excursions), a system of elective courses in various areas of educational programs to acquire knowledge on a particular topic, a system of intellectual competitions of various levels (subject and interdisciplinary Olympiads, contests, tournaments, intellectual marathons, games, etc.), a support system for gifted students.

All components of the structure of the educational environment are open, there is an opportunity to realize oneself, which leads to increased motivation for learning activities, and develops communication skills.

2.5 Information about teaching staff implementing the educational program.

The total number of teaching staff conducting training sessions at the department is: 2023-2024 - 26. Including academic degrees and titles: 2023-2027 - 75.0% (including teachers of the OOD cycle). 23 teachers teach classes in the state and English languages. The average age of the teaching staff is 48 years. The average age of full-time teaching staff with academic degrees and titles was 51 years.

Staffing of the teaching staff of the department according to the staffing table is 100%. The settlement rate of the PPP is 87.0%.

The availability of basic education for teaching staff in the profile of the department is 100%.

The teaching staff of the department is constantly improving, raising its scientific and pedagogical level through a professional development system. During the reporting period, the department has been constantly working to improve the skills of its young employees - through master's and doctoral studies. In the 2023-2024 academic year, the Doctor of Philosophy (PhD) in the specialty "Agronomy", the teacher of the department, A.A. Nogaev, was awarded the title of associate professor, and he was the winner of the competition "The best University teacher" in 2023.

Of the teaching staff conducting classes for students of the specialty, 5 people are holders of the state grant "The best university teacher" (professors Stybaev G.Zh., Musynov K.M., Khasanov V.T., senior lecturer Baitelenova A.A., Nogaev A.A.).

The analysis of the personnel potential of the department showed its high professional level with its desire to improve.

2.6 Characteristics of the achievements of the «Advanced agronomic science» EP

The achievements of the program include the number of contracts concluded with specialized research institutes for students to complete an internship.

The educational program provides educational practice in the discipline "General biology of organisms" - 2 credits, production (in the disciplines of agriculture, crop production) - 8 credits and pre-graduate practice - 2 credits, which is a university component.

The students' professional internship is planned mainly during the spring sowing campaign and harvesting of crops, on the campus of the Kazakh Agrotechnical University named after S.Seifullin, in the fields of large agricultural enterprises and farms and in experimental fields of research institutes in various regions of the republic.

Stationary fields of A.I.Baraev Scientific and Production Center of Grain Farming LLP, State Institution "Virgin Regional Inspection for variety testing of agricultural enterprises" are used as bases of production practice. Ministry of Agriculture of the Republic of Kazakhstan, LLP "Kazakh Research Institute of Agriculture and Crop Production, LLP "East Kazakhstan Research Institute of Agriculture", LLP "North Kazakhstan Research Institute of Agriculture", LLP "Kostanay Research Institute", LLP "Karabalyk agricultural experimental station", LLP

"Karaganda experimental station", LLP "Experimental farm of oilseeds", Agrobiological Center of the Kazakh Agrotechnical University named after S.Seifullin, large firms, large agricultural enterprises and farms, including TNK Agrofirma LLP, Bayserke Agro LLP, Farmer 2002 LLP, Maksimovskoye LLP, Rodina LLP, Atameken Agro LLP, etc.

Methods of conducting professional practices: stationary, field, field.

For people with disabilities, the choice of internship places is consistent with the requirement of their accessibility for these students and the state of health.

A special feature of OP 6B08105 "Advanced agronomic science" is the in-depth study of fundamental disciplines, as well as the additional study of the French language.

3 Characteristics of the problems that the development plan of the «Advanced agronomic science» EP is aimed at solving, and justification for the need to solve them

- harmonization of the content of educational programs with the educational programs of leading foreign and Kazakhstani universities and improvement of the quality of education through the introduction of effective pedagogical technologies, integration of educational and scientific-industrial environment, attracting highly qualified practitioners;

- a competence-based approach to education that ensures the variability and multilevel nature of the offered curricula and educational services;

- focus on meeting the needs of the state, stakeholders and students and consistency with national development priorities and the university's development strategy.

- to ensure equal opportunities for students, including, regardless of the language of instruction, the formation of an individual educational program aimed at the formation of professional competence. providing students with the opportunity to receive a wide range of additional education and additional educational services, including paid ones;

- ensuring a high level of social and professional competence and education of graduates, as a result of the traditionally high quality of education;

- reforming the educational process in accordance with the practice of the world's leading agricultural research universities and strengthening the material and technical base.

Students of the OP "Advanced Agronomic Science" have a high classroom workload, taking into account the recommendations of partners, since in-depth study of fundamental disciplines requires more classroom time. Taking into account this fact, the above problems arise.

4 The main goals and objectives of the development plan of the «Advanced agronomic science» EP indicating the timing and stages of its implementation

The purpose of the educational program is to prepare bachelors in the field of Agronomy with in-depth study of fundamental disciplines (biology, chemistry, mathematics, physics, IT), for the development of professional competencies in the scientific field, as well as for continuing studies in master's degree programs at world universities.

Objectives of the educational program:

- implementation of fundamental education aimed at training highly qualified personnel in the professional field;

- the introduction of innovative technologies in the education and training of competitive specialists in the field of Agronomy;

- the use of modern educational technologies, techniques, approaches and innovative techniques in teaching disciplines;

- training of competent specialists with in-depth theoretical knowledge and practical skills for admission to the Master's degree program at world-class universities;

- formation of universal and socio-personal values of the graduate, as well as environmental, physical, ethical, legal culture, culture of thinking;

- education in the spirit of patriotism, friendship of the peoples of the Republic of Kazakhstan, respect for different cultures, traditions and customs;

-prepare graduates for professional activity, mobility, continuous professional and moral improvement and growth throughout their lives;

-formation of graduates' competitiveness in the labor market to ensure the possibility of the fastest possible employment in the specialty.

The purpose of the development plan of the OP "Advanced agronomic Science" is to develop various types of activities aimed at creating conditions for the successful development of the educational program.

5 Measures to reduce the impact of risks for the «Advanced agronomic science» EP

The successful implementation of educational programs can be influenced by various types of risks, which is why it is necessary to develop preventive measures to reduce them.

Possible risk	Risk reduction measures	Responsible persons and deadlines for implementation
1. Highly competitive environment in the educational segment	Development and implementation of distance learning courses, including MOOS, created jointly with professors of the partner university, for use by external users	Teaching staff of the department, during each academic year
2. Lack of a laboratory for basic sciences	Creation of a laboratory for molecular biology, and equipping with modern equipment and devices through the financing of GF, PCF and international projects	Teaching staff of the Department of Biology, Plant Protection and Quarantine, Agriculture and Crop Production (heads of SOP), until 2025
3. Low motivation in using the e-learning system	Training in specialized trainings and training seminars	heads of SOP, Teaching staff of 2024-2028.
4. Administrative risk in the implementation of a two-degree educational program	Strict compliance with all requirements of the legislation of the Republic of Kazakhstan and the Russian Federation, standards, regulations and instructions	heads of SOP, Teaching staff of 2024-2028.
5. Insufficient level of foreign language proficiency of teaching staff	Planning of teaching staff for advanced study of a foreign language	head of the department, at least 2 teachers per academic year
6. Insufficient level of students' French language proficiency for admission to the master's degree program of the partner university	Inclusion of the French language in the RUP; organization of French language courses at the university; increasing incentives for learning French independently	during the year
7. Low motivation of students to participate in startup projects	To carry out explanatory work on the goals of startup design, its impact on the life of society and the developer	during the year
8. A low contingent of SOEs, in which fundamental sciences are deeply studied, due to the fact that applicants for agricultural educational programs come from rural schools, with low quality of training in subjects - physics, chemistry, mathematics, etc.	To conduct career guidance work in rural schools with good preparation, to motivate students with low preparation for additional study of disciplines	Head of the Department, Faculty staff

6 Action plan for the development of the «Advanced agronomic science» EP

№	Name of the activities	Term of realization	Responsible persons	Expected results	Resource provision
1	Improving the baccalaureate EP, taking into account the opinions of potential employers	2024-2028	Head of the Department, working group on EP	Taking into account the changes in the NPA, the proposals of stakeholders	-
2	Development of new UML in the state and Russian languages, computer programs	2026-2028	Head of the Department, faculty staff	A new UML will be developed	-
3	An increase in the number of scientific projects and contracts with business entities	2024-2028	Head of the department, teachers of the department	Project applications for competitions will be submitted	project financing
4	Conducting a dual form of training at the country's manufacturing enterprises	2024-2028	Head of the department, teachers of the department	Conducting disciplines within the framework of dual education	Conducting a dual form of training at the country's manufacturing enterprises
5	Academic mobility of teaching staff students	2024-2028	Head of the Department, responsible for academic mobility	Academic mobility of students	at the expense of the Ministry of Science of Higher Education of the RK, the university's own funds, etc.
6	Attracting leading scientists from near and far abroad to give lectures, conduct seminars, etc. to students	2024-2028	Head of the Department, heads of scientific projects	Lectures by foreign scientists	at the expense of the Ministry of Science of Higher Education of the Republic of Kazakhstan, international programs, the university's own funds, etc.
7	Passing an independent national specialized accreditation			completed in 2023 (accreditation for 5 years)	
8	International and republican scientific and industrial internships of teaching staff, including young scientists of the department	2024-2028	Head of the Department, responsible for MS	internships for heads of scientific projects, teaching staff	through international programs, the university's own funds etc.
9	Призовые места в национальном рейтинге специальностей среди вузов РК	2024-2028	Head of the Department	annually	

10	Students' prizes in republican subject Olympiads, competitions of the Ministry of Education and Science of the Republic of Kazakhstan for the best student works	2024-2028	Head of the Department	annually	the university's own funds
11	Monitoring the employment of graduates	2024-2028	Head of the Department, responsible for the employment of graduates	employment of graduates	
12	Conclusion of contracts for the passage of students' practical training	2024-2028	Head of the department, responsible for the practice	practical training	the base of practice, the university's own funds

7 Mechanism for implementing the development plan of the «Advanced agronomic science» EP

1. Memorandum of Understanding between AgroParisTech (Institut des sciences et industries du vivant et de l'environnement AgroParisTech) and NAO "Kazakh Agrotechnical University named after S.Seifullin" (30.01.2019)

2. Legislative and regulatory acts in accordance with which KazATIU named after S.Seifullin carries out its activities: The Law of the Republic of Kazakhstan "On education" dated July 27, 2007 No. 319-III

3. The development program of the NAO "Kazakh Agrotechnical Research University named after Saken Seifullin" for 2024-2029

4. License for the right to conduct educational activities of KazATIU named after S.Seifullin

5. Regulatory documentation developed by the S.Seifullin St. Petersburg State University of Economics

6. Students' mastering of the basic educational program in accordance with the RUP.

7. Providing students with the opportunity to test themselves in various directions: socio-moral, artistic and aesthetic, research, scientific, cognitive in interrelation.

8. Creation of an appropriate educational environment: educational, creative, social, etc.

9. Ensuring a favorable moral and psychological climate.

8 Assessment of the socio-economic efficiency of the implementation of the development plan of the «Advanced agronomic science» EP

As a result of the implementation of the OP 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 soil science and agrochemistry;

- improving the professional literacy of graduates and better meeting the needs of potential employers;

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

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

- improvement of the system of training specialists at all levels;

- increasing the number of educational services;

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

- increasing the income level of education workers;
- preventing the outflow of promising teaching staff to other industries;
- an increase in the number of young people employed in the economy (an increase in the number of employed or graduates who have moved to the next stage of education);
- the growth of academic mobility of students, academic and administrative;
- growth in the export of educational services (an increase in the number of citizens of other countries studying in institutions of higher professional and postgraduate education of the Republic of Kazakhstan);
- updating of the educational and material base (educational, laboratory, computer and technological base that meets modern requirements and standards).

9 Model of EP graduate by level of training

The graduate model of the Bachelor's degree program includes competencies: general education competencies, basic competencies and professional competencies.

General education competencies. To know the prerequisites for the formation of statehood in modern Kazakhstan; general principles of being and cognition, human and world relations, patterns of formation of a specialist's personality with higher professional education, patterns of occurrence of political phenomena (institutions, relations, processes), ways and forms of their functioning, methods of managing political processes, consciousness, the structure of society, norms and values, ways and the peculiarities of the functioning of the elements of society, the peculiarities of the processes of individuals and their role in the development of society; language and speech means, vocabulary, forms and types of speech/communication of the state, Russian and foreign languages; types of information and communication technologies; automation tools for information activities and their purpose, methods of measuring the amount of information; purpose and types of information models, purpose and functions of operating systems

He must show the ability to argue his own assessment of everything that is happening in the social and industrial spheres on the basis of worldview positions; make a choice of methodology and analysis in the field of such activities; assess situations in various spheres of interpersonal, social and professional communication; operate with social, business, cultural, legal and ethical norms of Kazakhstani society; use various types of personal activities information and communication technologies; to build a personal educational trajectory throughout life for self-development and career growth.

To possess skills of practical application of knowledge in the field of social, social and humanitarian sciences; communication in oral and written forms in Kazakh, Russian and foreign languages, solving problems of interpersonal, intercultural and professional communication.

Basic competencies. To know and understand: the basics of the legislation of the Republic of Kazakhstan in the field of professional activity; the structure and functioning of biological objects, the essence of biological processes, the circulation of substances and the conversion of energy in a cell, an organism; the nomenclature of inorganic and organic compounds; the structure of the main classes, classification and patterns of organic reactions; soil classification, methods of assessing fertility and soil reproduction; epiphytic, phytopathogenic and pathogenic microflora of plants and soil, ways of regulating its vital activity; tillage, sowing and harvesting units, schemes of their use, technological adjustments of agricultural machines; methods of calculating organic and mineral fertilizers, types, methods and technology of their application; causes of diseases, species composition of pests and pathogens of agricultural plants and their biology; modern methods and means of plant protection from pests, diseases and weeds; fundamentals of the modern market economy. Show skills: form professional ideas with critical reasoning; coordinate professional activities at the assigned site with the activities of other sites; assess the prospects for the development of the economy in market conditions; use agrometeorological information in the production of products; adjust agricultural machinery, equipment, set the seeding rate, fertilizers, determine the method of

assessing soil fertility and its regulation based on fertilization; diagnose pests and plant diseases; to develop, justify and apply systems of protective and preventive measures against pests, diseases and weeds; to assess the quality of field work performed.

Possess the skills of: using modern IT, including databases and software packages for crop production; working with microorganisms, microscopy, identification, microbiological analysis of soils, soils and plants; in legal matters to resolve disputes in a team, with business entities; oral and written professional communication in Kazakh, Russian and foreign languages; protection in emergency situations; work with regulatory and legal literature, labor legislation.

Graduates who have completed their studies within the framework of the educational program can work at enterprises and organizations of the agro-industrial complex; agricultural firms; organizations for assessing the quality of crop production; quarantine services; plant protection stations; research institutions in the field of agriculture; secondary specialized educational institutions, regardless of the form of ownership in the field of training, institutions for variety testing of agricultural crops; institutions of the agrochemical service, in the offices of local, district, regional, and republican structures.

Graduates of the educational program can work at enterprises and organizations of the agro-industrial complex; Agricultural structures, state-owned enterprises and organizations, representatives of scientific institutions and local executive bodies and regional and city departments of agriculture in the Republic of Kazakhstan, research institutes, experimental production farms and agricultural experimental stations and private limited liability companies and farms producing agricultural products, as well as to enroll in a master's degree in educational programs of world universities, including Agroparizhtech.

Head of the Department
of Agriculture and Crop Production



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