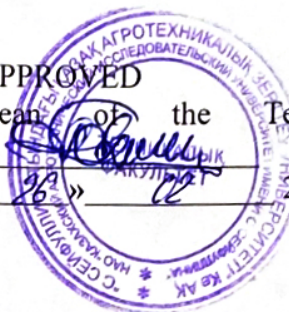


**MINISTRY OF AGRICULTURE OF THE REPUBLIC OF KAZAKHSTAN  
S. SEIFULLIN KAZAKH AGROTECHNICAL RESEARCH UNIVERSITY**

Reviewed at the meeting of the Faculty  
Academic Council  
Protocol No. 17 dated 23.02.2024

APPROVED  
Dean of the Technical Faculty  
Akhetmetov E.S.  
«23» \_\_\_\_\_ 2024



**DEVELOPMENT PLAN  
OF THE EDUCATIONAL PROGRAM  
8D07201 – "Food Technology"  
field of study - "Manufacturing and Processing Industries" for 2024-2029**

Reviewed at the extended meeting  
of the Department of "Food and Processing Technology"  
Protocol No. 7 dated «21» 02 2024

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## 1. Passport of the Educational Program Development Plan 8D07201 - "Food Technology" for 2024-2029

1	Justification for the Development of the Educational Program Plan	<p>The Department of "Food and Processing Technology" in implementing educational programs for doctoral training operates in accordance with the regulatory legal acts of the Ministry of Higher Education and Science of the Republic of Kazakhstan. The educational programs are developed in accordance with the State Educational Standards, in line with the Dublin Descriptors and the European Qualifications Framework, based on:</p> <ol style="list-style-type: none"> <li>1. The Law of the Republic of Kazakhstan "On Education".</li> <li>2. The Law of the Republic of Kazakhstan "On Science".</li> <li>3. The Address of the Head of State to the people of Kazakhstan dated September 1, 2021, "Unity of the People and Systemic Reforms - A Solid Foundation for the Country's Prosperity".</li> <li>4. The Address of the Head of State to the people of Kazakhstan dated September 1, 2023, "Economic Course of a Fair Kazakhstan".</li> <li>5. The Concept of Development of Higher Education and Science in the Republic of Kazakhstan for 2023-2029.</li> <li>6. "Standard Rules for the Activities of Higher and Postgraduate Education Organizations" Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 30, 2018, No. 595. Registered with the Ministry of Justice of the Republic of Kazakhstan on October 31, 2018, No. 17657.</li> <li>7. State Mandatory Standard of Education for All Levels of Education. Order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 20, 2022, No. 2. Registered with the Ministry of Justice of the Republic of Kazakhstan on July 27, 2022, No. 28916.</li> <li>8. "Qualification Requirements for Educational Activities and the List of Documents Confirming Their Compliance" Order of the Ministry of Education and Science of the Republic of Kazakhstan dated November 22, 2022, No. 152.</li> <li>9. Standard Rules for Admission to Educational Organizations Implementing Educational Programs of Higher and Postgraduate Education. Order of the Ministry of Education and Science of the Republic of Kazakhstan dated December 15, 2022, No. 189.</li> <li>10. Development Program of the Non-Profit Joint Stock Company "S. Seifullin Kazakh Agrotechnical Research University" for 2023-2029.</li> </ol>
2	Key Developers of the Educational Program Development Plan	The collective of the Department of "Food and Processing Technology," employers, partner universities, and other interested parties (considering the requests of real and potential stakeholders of the educational program).
3	Implementation Period of the Educational Program Development Plan	The entire training period from 2024 to 2029 (a short-term forecast with a depth of up to 5 years established using the foresight method)
4	Volume and Sources of Funding	-

5	Expected Final Results of the Implementation of the Educational Program Development Plan	<p>Upon completion of this educational program, doctoral candidates are expected to be able to:</p> <ol style="list-style-type: none"> <li>1. Propose methodological approaches to improving food technology;</li> <li>2. Have skills in conducting scientific research in the field of food technology using information and communication technologies;</li> <li>3. Understand modern trends and patterns in the development of national science in the context of globalization of high-tech industries;</li> <li>4. Analyze and evaluate the socio-economic consequences of new phenomena in science, technology, and engineering in the professional field;</li> <li>5. Apply professional knowledge and skills in implementing tasks of innovative educational policy;</li> <li>6. Have the ability to manage technologies, scientific research, and commercialization of ideas in solving professional tasks;</li> <li>7. Apply scientific communication technologies in Kazakh, Russian, and foreign languages;</li> <li>8. Make conclusions and provide recommendations based on the results of scientific research in the field of food products;</li> <li>9. Analyze and apply the most well-founded innovative solutions to improve the safety and efficiency of food production.</li> </ol>
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## 2. Analytical Justification of the Educational Program

### 2.1 Information about the Educational Program

The food industry holds enormous socio-economic importance as it meets the population's needs for essential food products and reflects the country's standard of living. Food production serves as an indicator of the economic situation in the country. In this context, training competitive specialists who have successfully mastered modern educational programs in food production technologies and are capable of independently developing technologies for new types of food products is one of the urgent tasks in the Republic of Kazakhstan.

The educational program "Food Technology" is developed in accordance with the National Qualifications Framework and professional standards, aligned with the Dublin Descriptors and the European Qualifications Framework, based on the State Mandatory Standard of Higher Education for doctoral studies, approved by the order of the Minister of Science and Higher Education of the Republic of Kazakhstan dated July 20, 2022 (No. 2), and the Classifier of Training Areas for Higher and Postgraduate Education of the Republic of Kazakhstan in the field of study 8D072 - Manufacturing and Processing Industries.

The program is designed based on a modular system of studying disciplines and includes theoretical and practical training, pedagogical and research practice, and the completion of a doctoral dissertation. In total, a doctoral student must complete 180 ECTS credits. The training is conducted in three languages (Kazakh, Russian, and English).

A distinctive feature of the program is the ability to consolidate theoretical knowledge and practical skills on the basis of its own scientific-experimental platform for the production and processing of agricultural products, created within the framework of the State Program of Industrial-Innovative Development of the Republic of Kazakhstan for 2015-2019, in collaboration with professors from the University of California, Davis (USA), and considering the recommendations of leading industry specialists. The platform includes 4 experimental-production workshops for processing meat, milk, oilseeds, and public catering, allowing real-time observation of technological processes in the workshops. Uniquely, doctoral students have

the opportunity to implement their experimentally substantiated developments into the production cycle of the workshops.

The competitive advantages of this educational program include:

- Highly qualified teaching staff (100% degree holders, average age 47 years);
- High level of material and technical equipment for the educational program (the department has 4 operational experimental-production workshops and 2 laboratories for physico-chemical research of food products);
- Training is conducted in three languages (Kazakh, Russian, and English);
- Regular scientific internships for doctoral students at leading foreign universities using modern material and technical bases: UC Davis (California), Northwest Agricultural and Forestry University (China), and others;
- 100% provision of official apartment-type housing for accommodation during training.

The main stakeholders of the program are the Ministry of Agriculture of the Republic of Kazakhstan, the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken", research institutes and scientific-production centers, sectoral institutes, expert organizations, state and non-state specialized educational organizations, higher educational institutions, and educational-production centers.

The interdisciplinary and multidisciplinary nature of the educational program ensures the training of personnel at the intersection of various fields of knowledge. It is generally aimed at preparing qualified competitive personnel for professional activities in all sectors of the food industry and provides broad-based professional training directed towards achieving fundamental knowledge for future specialists.

## 2.2 Information about Students

The enrollment plan for the educational program 8D07201 – "Food Technology" for the 2024-2025 academic year includes admitting 3 doctoral students. There are plans to further increase the number of applicants through effective career guidance activities and enhancing the prestige of the specialty. Student Enrollment Information for the Specialty "Food Technology" as of June 2024.

Educational Program	2021-2022 Academic Year	2022-2023 Academic Year	2023-2024 Academic Year
8D07201 - Food Technology	17	11	12

The analysis shows a high demand in the labor market for specialists in this field and the overall prestige of the university.

## 2.3 Internal Conditions for the Development of the Educational Program

To develop and implement the educational program 8D07201 – "Food Technology," the department has created favorable and optimal conditions, such as:

- Highly qualified faculty (approximately 100% hold degrees);
- Advanced material and technical equipment for the educational program;
- Instruction in three languages (state language, Russian, and English);
- Close collaboration with employers
- A modern educational and methodological base, providing students with access to informational and analytical resources of the global scientific community;
- Use of modern and interactive educational technologies;
- Academic mobility (external and internal);
- High-quality professional infrastructure (educational resources);
- Laboratories equipped with special equipment and materials for conducting laboratory and practical classes;

- Experimental workshops for professional practice in the food and processing industries, including:

- "Experimental Production Workshop for Milk Processing,"
- "Experimental Production Workshop for Meat Processing,"
- "Experimental Production Workshop for Vegetable Oil,"
- "Experimental Production Workshop for Bread and Bakery Products."

The availability of high-quality professional infrastructure (educational resources) necessary for implementing the educational program guarantees the training of highly qualified specialists for the modern era.

#### **2.4 Characteristics of the Surrounding Community**

The bases for research and teaching practices for the educational program are: the department, laboratories, and experimental production workshops of the NAO "Kazakh Agrotechnical Research University named after S. Seifullin," enterprises such as LLP "Rodina," LLP "Astana Onim," LLP "Hormolzavod," LLP "Bakara," LLP "JFOOD KAZAKHSTAN," LLP "Garant," the "Kazakh Research Institute of Agricultural Processing," scientific laboratories of foreign collaborators, and others.

The teaching practice is aimed at developing professional competencies in doctoral students, ensuring their readiness for teaching activities in universities, designing the educational process in accordance with the training profile, and conducting various types of classes using innovative educational technologies. It also aims to consolidate psychological and pedagogical knowledge in the field of professional pedagogy and to acquire skills in a creative approach to solving scientific and pedagogical tasks. Additionally, it introduces doctoral students to real problems addressed in the educational process of higher professional education institutions and provides them with experience in teaching work at the university level.

To develop academic mobility, there is close cooperation with foreign universities, and students have the opportunity to undertake scientific internships abroad at leading universities in Europe, the USA, and other countries. Scientific internships are conducted at partner universities under cooperation agreements with leading universities worldwide, such as the University of Angers (Université d'Angers, France), the University of California Davis (UC Davis, USA), Weihenstephan-Triesdorf University of Applied Sciences (Germany), the Agricultural University of Krakow (Poland), Northwest A&F University, Yangling, Shaanxi (China), the Belarusian State Agrarian Technical University, and the search for new partner universities among foreign countries, customs union countries, and CIS countries continues.

#### **2.5 Information about Faculty Members Implementing the Educational Program**

The number of teaching staff providing training for doctoral students in OP 8D07201 – "Food technology" is 12 people. The share of teachers with academic degrees and titles is 12 people (100%). The average age is 55 years.

The teaching staff of the department "Technology of Food and Processing Industries" constantly improve their knowledge in this industry and undergo advanced training, including short-term refresher courses, visits to various seminars, internships at leading universities in Kazakhstan, far and near abroad, as well as in relevant industry organizations.

#### **2.6 Analysis of students' achievements**

The educational program 8D07201–"Food Technology" in 2020 successfully passed an independent specialized accreditation in the accreditation body of the Independent Agency for Accreditation and Rating (hereinafter - NAAR). On 05/20/2020, by the decision of the NAAR Accreditation Council, the educational program of the specialty was accredited and awarded a certificate for a full period of 5 years.

Among the national rankings, the university annually participates in the Independent Ranking of universities in areas and levels of training conducted by the Independent

Accreditation and Rating Agency (NAAR) and the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" (NCE RK "Atameken").

The page of the Independent Accreditation and Rating Agency (NAAR) <http://www.iaar.kz/ru/>.

Ranking results among universities of the Republic of Kazakhstan participating in the NAAR rankings:

Educational programs	Occupied places		
	2021 year	2022 year	2023 year
8D07201 – "Food technology"	II	I	I

Throughout the entire period of the educational process, the doctoral students of the specialty achieved results concerning residual knowledge in the corridor above the average value.

The types of professional activity for doctoral students are mastering the skills of determining the constituent elements of food products, in the field of modern industry, with solving urgent problems in food production, experimental research to improve the quality of raw materials, finished products of the relevant food industries; conducting experiments, implementing research results and scientific developments.

In addition, doctoral students participate in research programs and projects funded by the department, which help doctoral students complete their dissertations as soon as possible:

- within the framework of the International Erasmus+ ASIAXI project, doctoral students Toleugazykyzy A., Abdugamitova A.E. participate;

- within the framework of financing from international scientific foundations, together with Michigan State University of the United States of America and foreign organizations, doctoral student Toleugazykyzy A. participates.;

- within the framework of grant financing - doctoral students AmirkhanovSh.A., Tokysheva G.M., Mukhanbetova N.A., Muldasheva A.H., Iskineeva A.S., Toleugazykyzy A., Shaimenova B.S., Ermekov E.E., Sagandyk A.T. participate;

- doctoral students AmirkhanovSh.A., Tokysheva participate in the framework of program-targeted financing G.M., Sagandyk A.T., Ermekov E.E., Shoman A.K., Tapalova A.B., Abubakirova L.D., Akhmetzhanova A.T.

In the 2022-23, 2023-24 academic year, the following doctoral students defended their work under the educational program 8D07201 - "Food technology":

- In 2023, Amirkhanov Sh. A. successfully defended his dissertation at the ShakarimSemey State University and received a PhD degree;

- In 2023, Toleugazykyz A. successfully defended her dissertation at the Almaty Technological University and received a PhD degree;

- In 2024. Tokysheva G. M. defended her dissertation at the ShakarimSemey State University.

### **3. Characteristics of the Problems Addressed by the Development Plan of the Educational Program and Justification for Their Resolution**

The educational program 8D07201 "Food Technology" is designed to train competitive professionals for professional activities in the organization and effective utilization of machinery and technology in the food processing industries, focusing on existing technologies. Graduates are expected to possess skills in studying the state of regulatory and technical support systems, as well as skills in scientific, production, organizational, managerial, and research work. They should be capable of conducting experimental and theoretical research on modern issues in food technology, addressing contemporary scientific and practical challenges at the intersection of disciplines. They are also expected to successfully engage in research and managerial activities

in various research organizations and industries. Graduates are intended to increase the percentage of their research publications in the field of designing and improving machinery and equipment, organizing and effectively utilizing agricultural technology in domestic and international journals with a non-zero impact factor. Publication data of the Department of Food and Processing Production Technology, with a depth of analysis of 3 years.

Publications	2021-2022	2022-2023	2023-2024
In scientific journals with impact factor greater than zero.	8	11	24
In scientific journals that are part of KKON and RINC (Russian Index of Science Citation).	32	23	24
In proceedings of international and republican scientific-practical conferences and other publications.	43	56	30

Trained personnel must be proficient in English at least at the C1 Advanced level. Currently, English language courses such as DynEd and IELTS are organized at the university.

#### SWOT analysis of the internal and external environment

Strengths	Weaknesses
<ul style="list-style-type: none"> <li>- Availability of 3 levels of education and a contingent;</li> <li>- The presence of a two-degree education;</li> <li>- Availability of international and grant projects;</li> <li>- Stable demand and employment of graduates.</li> </ul>	<ul style="list-style-type: none"> <li>- The absence of a dissertation council on EP 8D07201 - Food technology.</li> <li>- Low proportion of teaching staff teaching in English;</li> <li>- Academic mobility of students and teaching staff.</li> </ul>
Opportunities	Threats
<ul style="list-style-type: none"> <li>- Participation of teaching staff and students in funded scientific projects;</li> <li>- Development of internal academic mobility.</li> </ul>	<ul style="list-style-type: none"> <li>Lack of scientific developments, new technologies, low level of innovation activity;</li> <li>- Low level of integration of education, science and production, implementation of research results and their commercialization.</li> </ul>

#### 4. Main Goals and Objectives of the Development Plan with Indication of Terms and Stages of Its Implementation

The educational program 8D07201 "Food Technology" was created based on employer demand. Graduates will be sought after in many companies, ranging from small and medium enterprises to large corporations, as well as in universities as teachers, doctoral students, and in research institutes, innovative food companies, or government institutions.

The main goal of the educational program and its development is its enhancement in accordance with the vision, mission, and strategy of the university aimed at preparing highly qualified, competitive professionals, improving knowledge quality, and forming a multi-level system of research activities in line with the current needs of modern education and science, transforming into a world-class innovative university.

The main objectives of the development plan include the following:

№	Name of the task	Terms of development	Stages of development
1	Providing conditions for obtaining a full-fledged, high-quality professional education	The entire period of study 2024–2029	Development of measures to improve the quality of educational services for the development of professional



			skills of future specialists
2	Formation of the main professional competencies of future specialists	The entire period of study 2024–2029	Updating the content of the OP. Acquisition of professional competencies in the field of agricultural mechanization.
3	The ability to work with scientific and technical information, use domestic and foreign experience in professional activities, systematize and summarize the information received	The entire period of study 2024–2029	Development of measures for the analysis and processing of the results obtained
4	Consultations of employers and scientists of the Research Institute in the selection of relevant and practically significant topics of theses and master's and doctoral theses	The end of undergraduate studies and the beginning of graduate and doctoral studies	Consultations with employers and stakeholders

### 5. Measures to Mitigate Risks for the Educational Program

The following measures are used in the implementation of educational programs to reduce risks:

№	Name of the risk	Risk prevention measures
1	Insufficient provision of educational and methodological literature on professional disciplines in the state and English languages	To plan the annual release by scientists and teaching staff of scientific and educational literature in the state and English languages, according to the working curriculum of students
2	The traditional way of conducting classes	To improve and introduce innovative technologies of teaching and providing educational services at the level of world standards into the educational process
3	Outdated educational and laboratory facilities	Creation of modern educational, research and laboratory facilities based on public-private partnership, purchase of modern laboratory equipment
4	Lack of scientific and teaching staff due to retirement	Training of highly qualified scientific personnel through master's and doctoral studies (PhD) at the level of modern requirements
5	Small academic groups of students in Russian	Formation of a contingent of students of this profile through career guidance and information and advertising work, creation of multilingual learning groups
6	Reducing the percentage of tenure among faculty members.	Training of young teachers in doctoral studies

#### Activities for the development of the educational program

The educational program development plan is developed on the basis of the strategic development plan of the university and is the main document for defining and solving the problems of the educational program.

The plan for the development of the educational program reflects the activities in the main priority areas:

Direction 1. Improvement of academic activities (including improving the content of the educational program)

Direction 2. Human resources development

Direction 3. Development of scientific and research potential

Direction 4. Improvement of infrastructure and material and technical base

№	Name of the target indicator	Unit of measurement	Terms of implementation					Expected results	Resource provision
			2025	2026	2027	2028	2029		
<b>Quantitative indicators</b>									
1	The total number of students	human	3	3	3	3	3	Increasing the number of students	Allocation of grants from the Ministry of Education and Science for state educational orders.
2	The number of students accepted for training by the state educational order	human	3	3	3	3	3	Increasing the number of students	Allocation of grants from the Ministry of Education and Science for education under the state educational order.
3	The share of graduates employed in the 1st year after graduation (from the total number of graduates)	%	100	100	100	100	100	Increase in the percentage of employment	High-quality personnel training, curriculum development involving stakeholders.
4	The number of doctoral students studying within the framework of academic mobility (external)	human	1	1	1	1	1	An increase in students within the framework of academic mobility (external), the acquisition of additional skills of students	Development of international cooperation.
<b>Direction 1: Improvement of academic activities/improvement of the content of the educational program</b>									
5	Development/update of the educational program based on professional standards with	Unit	-	1	-	-	1	Satisfying the market with	Maintaining close communication

	employer involvement								competitive graduates	on with employers
6	Passage of specialized accreditation/ rosaccreditation in agencies that are full members of international European networks for ensuring the quality of education and included in the register of the authorized body in the field of education	number of educational programs	-	-	1	-	-	-	Recognition of the educational program and further training of personnel	Financial support and preparation for accreditation
7	The positions of the educational program in the ratings (NAAR, QS, etc.)	place	3	3	2	2	1	1	Increasing the position of the educational program in the ratings	High qualitative and quantitative indicators of ratings
8	The introduction of innovative teaching methods into the educational process	Units of implementation	1	1	1	2	2	2	Improving the quality of training of students, motivation of students	Development of innovative methods of teaching and professional development of teaching staff
9	Number of textbooks and teaching aids	Unit	4	4	5	6	7	7	Improving the quality of student training	Motivation and availability of opportunity (in time) depending on the teaching load of teaching staff, high qualification of teaching staff
<b>Direction 2 Development of human resources</b>										
10	The number of teaching staff who have completed advanced training in the profile of the disciplines taught (72 hours)	Unit	5	-	-	5	-	-	Advanced training of teaching staff in the profile of the disciplines taught	Financial security
11	Number of teaching staff who have completed advanced training/internships in inclusive education(72 hours)	number of teaching staff	1	1	1	2	2	2	Advanced training of teaching staff in inclusive education	Financial security
12	Number of teaching staff/ percentage of teaching staff who have completed advanced training in foreign universities, research institutes	human %	1/20	1/20	1/20	1/20	1/20	1/20	Advanced training of teaching staff at foreign universities	Financial security

								, research institutes	
13	Number of PPS/ share	human / %	1/20	1/20	2/40	1/20	3/60	Professional development of teaching staff and professional skills	Financial security
14	Teaching staff who have completed internships	human	1	1	1	1	2	Practice-oriented student learning	Close cooperation with stakeholders
15	The number of attracted domestic teachers within the framework of internal academic mobility	human	1	1	1	1	2	Opportunities for students to gain additional knowledge in various fields	Cooperation with universities of the Republic of Kazakhstan
16	The number of attracted teaching staff from abroad	human	1	1	1	1	2	Opportunities for students to gain additional knowledge in various fields	Financial support for cooperation with foreign universities
17	Number of teaching staff/ percentage of teaching staff teaching in English	human / %	3/60	6/20	8/25	8/25	8/25	Training of competitive graduates	High level of English and financial support for obtaining an official language proficiency certificate
18	Number of teaching staff/ percentage of teaching staff with international certificates confirming proficiency in a foreign language	human / %	1/5	1/5	1/5	2/8	2/8	Training of competitive graduates	High level of English and financial support for obtaining an official language proficiency certificate
<b>Direction 3. Development of human resources</b>									
19	The share of citations of scientists' publications in the Scopus database of the total number of citations of scientists of the Republic of Kazakhstan in	%	3	3	4	4	5	Implementation of scientific results in education	Financial support, scientific projects

20	The number of publications in rating publications according to information resources on the Web of Science platform	Unit	2	2	3	3	4	Implementation of scientific results in education	Financial support, scientific projects
21	The share of teaching staff participating in educational and research projects from the total number of teaching staff	%	30	30	35	35	40	Implementation of scientific results in education	Financial support, research results
22	The number of startup projects implemented by teaching staff and students	Unit	1	1	1	2	2	Obtaining practical skills and financial literacy	Financial support, the formation of an idea and the availability of initial scientific groundwork
23	The number of scientists who have completed internships in the leading scientific centers of the world within the framework of the 500 Scientists program	Unit	2	2	2	3	3	The possibility of introducing new knowledge and teaching methods	Financial support, knowledge of a foreign language
24	The number of patents obtained within the framework of research, implemented at the expense of the state budget	Unit	5	5	6	7	8	The possibility of introducing new knowledge	Financial support, research results
25	The share of projects carried out jointly with higher educational institutions and research organizations of the Republic of Kazakhstan from the total number of scientific projects.	%	70	70	75	75	80	The possibility of introducing new knowledge and teaching methods	Collaboration with higher educational institutions and research organizations in the Republic of Kazakhstan
26	The number of publications in CCIS (Current Contents of Scientific Publications of the Ministry of Education and Science of Kazakhstan).	Unit	4	4	5	5	6	Implementation of scientific results in education	Financial support, scientific projects
27	The share of income received from innovative developments and commercialized projects of the university	number	1	1	1	2	2	Practice-oriented training	Cooperation with enterprises and the results of scientific research
28	Number of copyright certificates, patents	number	5	5	6	7	8	The possibility	Financial support,

		er						of introducing new knowledge	research results
29	The proportion of doctoral students involved in research activities	%	100	100	100	100	100	Increasing the rating of the educational program and motivating students	The interest and activity of doctoral students
<b>Direction 4. Improvement of infrastructure and material and technical base</b>									
30	The number of laboratories introduced (updated)	Unit	2	2	3	3	4	High efficiency of laboratory practical training and scientific research	Financial support, specialized personnel
31	Number/Share of disciplines in which online courses (MOOCs) have been developed	Unit /%	1/10	2/20	2/20	2/20	3/30	Integration of MOOC courses	Highly qualified teacher and relevant information software
32	Number/Share of updated scientific equipment	Unit /%	10/2	10/2	10/2	20/2	30/3	Strengthening the material and technical base	Financial support, specialized personnel

## 6. Action Plan for the Development of the Educational Program

№	Name of the events	Terms of implementation	Responsible persons	Expected results
1	Formation of a working group on the development of the educational program 2024-2029	November 2024 – April 2025 (further annually until 2029)	Head of the department	The formed team of authors
2	Development of the goals and objectives of the educational program 2024-2029	November 2024 – April 2025 (hereinafter and annually until 2029)	Head of the department, The faculty team of the educational program	The developed goals and objectives of the educational program
3	Definition of	November 2024 – April	Head of the	Developed positions on

	specialist competencies and disciplines of the specialty 2024 - 2029	2025 (further annually until 2029)	department The faculty team of the educational program	competencies es
4	Formation and coordination of specialist competencies and specialty disciplines with Dublin descriptors	November 2024 – April 2025 (further annually until 2029)	Head of the department, The faculty team of the educational program	Formed and agreed competencies
5	Formulation of the educational program in accordance with professional standards	November 2024 – April 2025 (further annually until 2029)	Head of the department, The faculty team of the educational program	The formed educational program
6	Compilation of the academic calendar and working curriculum for the specialty in accordance with the developed educational program	November 2024 – April 2025 (further annually until 2029)	Head of the Department	Academic calendar and work curriculum
7	Review of the educational program at an extended department meeting with employers	August– September	Stakeholders (Faculty of the Department, employers, etc.)	Discussion of the educational program
8	Review and approval of the educational program at the faculty council	2025 (hereinafter annually until 2029)	Members of the Council of the Technical Faculty, employers	Approval of the educational program

## 7. Mechanism for Implementing the Development Plan

The implementation of the plan is carried out according to the tasks set:

- providing conditions for obtaining high-quality professional education by introducing innovative learning technologies into the educational process at the level of world standards;
- based on the results of theoretical and practical knowledge, the formation of basic professional competencies;
- creation of prerequisites for independent search and research activities of the student within the framework of the experiment at all its stages;
- formation of skills of the ability to work with scientific and technical information, systematize and summarize the information received;
- at the final stage, the selection of relevant and practically significant topics of doctoral dissertations.

Head of the Department Food and  
Processing Production Technology,  
Candidate of Technical Sciences, Associate  
Professor



Kakimov M.M.