

**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
Ахметов Е.С.
« 23 » 02 2024



**DEVELOPMENT PLAN OF THE EDUCATIONAL PROGRAM
6B07201 - "Food Technology" under the group of educational programs
B068 - "Food Production" for the years 2024-2029**

Reviewed at the extended meeting
of the Department of "Food and Processing Technology"
Protocol No. 07 dated « 21 » 02 2024

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1. Passport of the Development Plan for the Educational Program 6B07201 - "Food Technology" for the Years 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"> 1. The Law of the Republic of Kazakhstan "On Education". 2. The Law of the Republic of Kazakhstan "On Science". 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". 4. The Address of the Head of State to the people of Kazakhstan dated September 1, 2023, "Economic Course of a Fair Kazakhstan". 5. The Concept of Development of Higher Education and Science in the Republic of Kazakhstan for 2023-2029. 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. 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. 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. 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. 10. Development Program of the Non-Profit Joint Stock Company "S. Seifullin Kazakh Agrotechnical Research University" for 2023-2029.
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	Acquiring deep theoretical and practical knowledge and skills, ensuring a clear focus of students on successful professional activities and personal growth, meeting the requirements of employers. Achieving a high level of quality in higher education that meets the needs of the labor market, the tasks of the country's industrial and innovative development, personal growth, and aligns with the best global practices in education.
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2. Analytical Justification of the Educational Program

2.1 Information about the Educational Program

The educational program 6B07201 - "Food Technology" aims to prepare highly qualified, competitive professionals, improve knowledge quality, and establish a multi-level system of research activities in line with the current needs of modern education and science. It also focuses on the harmonious development of individuals as specialists in organizing and effectively utilizing modern food technologies.

This program mirrors the curriculum of the University of California, Davis (USA) and was developed within the framework of the State Program for Industrial-Innovative Development of Kazakhstan for 2015-2019. It was created in collaboration with professors from UC Davis and considers the recommendations of leading industry experts. It aligns with the National Qualifications Framework (NQF) and professional standards, is coordinated with Dublin Descriptors and the European Qualifications Framework, and is based on the State Compulsory Standard of Higher Education, 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 specialties of higher and postgraduate education of the Republic of Kazakhstan under the direction of training 6B072 - Production and Processing Industries.

The program focuses on improving educational organization by solidifying theoretical knowledge and practical skills through its own scientific-experimental platform for the production and processing of agricultural products. Training is conducted using video cameras installed in classrooms and production-experimental workshops.

The program also offers the opportunity for multilingual group learning and dual education technology, meaning theoretical classes are held at the university, while practical classes take place at production enterprises. Currently, dual education technology is widely practiced with JFOOD KAZAKHSTAN LLP.

The interdisciplinary and multidisciplinary nature of the program ensures the training of personnel at the intersection of various fields of knowledge, generally aimed at preparing qualified, competitive professionals for professional activities in all sectors of the food industry. It provides broad foundational professional training, focused on achieving fundamental knowledge for future specialists.

2.2 Information about Students

The enrollment plan for the educational program 6B07201 - "Food Technology" for the 2024-2025 academic year includes 250 undergraduate students. Further increases in enrollment are expected through refined career guidance efforts and enhancing the prestige of the specialties.

Information on the student cohort in the "Food Technology" specialty as of June 2024.

Educational Program	2021-2022 Academic Year	2022-2023 Academic Year	2023-2024 Academic Year
6B07201- Food Technology	636	554	580

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 6B07201 - "Food Technology," the department has established favorable and optimal conditions, such as:

- Highly qualified faculty (about 69% hold advanced degrees)
- High-quality material and technical resources for the program
- Instruction in three languages (state language, Russian, and English)
- Close collaboration with employers
- Modern educational and methodological base with access to global scientific and analytical resources
- Use of modern and interactive teaching aids
- Implementation of dual education technology (part of the classes held at production sites)
- Academic mobility (both external and internal)
- High-quality professional infrastructure (educational resources)
- Laboratories equipped with specialized equipment and materials for laboratory and practical classes
- Experimental workshops for professional internships in the food and processing industries: "Experimental Milk Processing Workshop," "Experimental Meat Processing Workshop," "Experimental Vegetable Oil Workshop," "Experimental Bread and Bakery Products Workshop."

The presence of this high-quality professional infrastructure (educational resources) necessary for the implementation of the educational program guarantees the preparation of highly qualified specialists for the modern era.

2.4 Characteristics of the Surrounding Society

The department establishes practical training bases for students enrolled in the educational program, signing agreements and contracts with enterprises for academic, industrial, and pre-graduation internships. Currently, there are active contracts for industrial technological practices with the following enterprises:

- LLP "JFOOD KAZAKHSTAN," Astana
- LLP "KazGerKus," Stepnyak, Akmolaregion
- LLP "Molprodukt," Zarechnoye village, Akmola region
- LLP "Dedov," Aktas village, Karaganda region
- LLP "Company BAYAN," Zhezkazgancity
- LLP Group of Companies "Akmolholding" and LLP Novokubanskaya, LLP "Astyk" under the "Food Technology" training direction

The dual education practice is being integrated into the training process. For third-year students, starting from the second semester, off-campus classes in the discipline "Grain Science with Basics of Crop Production" are held at LLP "JFOOD KAZAKHSTAN." Annually, representatives from partner enterprises and leading foreign lecturers from partner universities are invited to deliver lectures.

To promote academic mobility, the department maintains close cooperation with foreign universities, offering students the opportunity to participate in scientific internships at leading universities in Europe, the USA, and other countries.

A dual-degree education agreement has been signed between the S. Seifullin Kazakh Agrotechnical University and Northwest A&F University in China. This agreement aims at joint talent development as per the Memorandum of Cooperation No. 477 dated March 25, 2022, enhancing educational collaboration between the two institutions.

2.5 Information about Faculty Members Implementing the Educational Program

The teaching staff supporting the training of bachelor's students in the educational program 6B07201 - "Food Technology" consists of 88 people, of which 54 instructors teach the BD and PD cycles. The percentage of instructors with academic degrees and titles is 64 (72.7%). There are 24 instructors with a master's degree. The average age of the faculty is 48 years. The faculty of the Department of Food and Processing Production Technologies continuously enhances their expertise in the field through various means, including short-term qualification courses, attendance at seminars, internships at leading universities in Kazakhstan and abroad, as well as in relevant industry organizations.

2.6 Analysis of students' achievements

The educational program 6B07201 - "Food Technology" successfully underwent independent specialized accreditation by the Independent Agency for Accreditation and Rating (IAAR) in 2019. On December 19, 2019, by the decision of the IAAR Accreditation Council, the educational program was accredited and awarded a certificate for a full term of 5 years.

Among national rankings, the university annually participates in the Independent Ranking of Universities by fields and levels of training conducted by the IAAR and the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" (NCE RK "Atameken").

The webpage of NCE RK "Atameken" is <https://atameken.kz/ru/>.

Results of the educational program ranking by NCE RK "Atameken"

Educational programs	Occupied places		
	2021 year	2022 year	2023 year
6B07201 – "Food technology"	I	III	I

The webpage of the Independent Agency for Accreditation and Rating (IAAR) is <http://www.iaar.kz/ru/>.

Results of the ranking among universities in the Republic of Kazakhstan participating in IAAR ratings:

Educational programs	Occupied places		
	2021 year	2022 year	2023 year
6B07201 – "Food technology"	II	II	III

Throughout the entire educational process, students in the specialty have achieved results regarding residual knowledge that are above the average range.

The educational program 6B07201 - "Food Technology" identifies gifted students through scientific clubs. These students are subsequently included in research groups led by scientific project managers with funding, typically receiving recommendations for the master's program.

Additionally, students in this program can participate in extracurricular activities at the university level, managed by the Youth Affairs Committee (YAC) under the Department of Educational Work. Currently, the YAC of the university oversees the following self-governance organizations: faculty YACs, the student union "Samgau," student leagues, student clubs, student organizations such as "Zhas Otan," the Student Parliament, the Student Alliance of S. Seifullin KATU, dormitory student councils, "Volunteers," and "Order Guards."

Students participate in various Olympiads and scientific-practical conferences, consistently achieving prize-winning places. For instance, in the Republican Subject Olympiad among universities in the Republic of Kazakhstan in 2022, 2023, and 2024 (Almaty Technological University), students specializing in 6B07201 "Food Technology" won 1st to 3rd places.

These results demonstrate a high interest among students in research activities and an overall improvement in their preparation for Olympiads.

At the annual Republican scientific-theoretical conference "Seifullin Readings-12": "Youth in Science - Innovative Potential of the Future," more than 40 scientific reports were presented jointly with students. As a result of the conference, young scientists, master's students, and students were awarded 1st, 2nd, and 3rd degree diplomas.

In the 2023-2024 academic year, the Chairman of the Board - Rector of S. Seifullin Kazakh Agrotechnical University, K.M. Tireuov, signed several memorandums of cooperation with heads of production enterprises. Based on these memorandums, an agreement was reached for paid industrial internships for the "Food Technology" educational program. As a result, third-year students of this educational program completed paid industrial internships at the vegetable oil processing plant LLP "Bota-2015" in Makinsk (8 students), at the bread factory LLP "Atameken - 2000" in Aktobe (5 students), and at IP QAIMAQ bakery and coffee (17 students). Thus, thanks to these concrete and effective actions, our graduates have gained the opportunity to find employment in their chosen specialty, increasing their confidence in the future.

3. Characteristics of the Problems Addressed by the Development Plan and Justification of the Need for Their Resolution

The educational program 6B07201 - "Food Technology" is designed to prepare personnel for professional activities in organizing and effectively utilizing techniques and technologies of food products in the processing industries, in line with existing technologies.

Trained personnel should possess skills in assessing the state of regulatory and technical support systems, as well as skills in scientific-production, organizational-management, and research work. They should be capable of conducting experimental and theoretical research on contemporary issues in the field of food technology.

Trained personnel should aim to increase the percentage of their research articles published in the field of creating and improving machinery and equipment, organizing and effectively using agricultural technology, in domestic and international journals with a non-zero impact factor.

Information on publications by the faculty of the "Food and Processing Production Technology" department, with a depth of analysis over 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.

SWO Tanalysis of the internal and external environment

Strengths	Weaknesses
<ul style="list-style-type: none"> - Availability of 3 levels of education and a contingent; - The presence of a two-degree education; - Availability of international and grant projects; - Stable demand and employment of graduates. 	<ul style="list-style-type: none"> - Lack of English groups; - The small number of foreign students. - Low proportion of teaching staff teaching in English; - Academic mobility of students and teaching staff.
Opportunities	Threats
<ul style="list-style-type: none"> - Participation of teaching staff and students 	<ul style="list-style-type: none"> - Economic crisis, inflation, increased

in funded scientific projects; - Development of dual education; - Development of internal academic mobility.	tuition fees, low consumer solvency; - Low GPA of students; - The low level of preparedness of applicants in natural sciences, including foreign languages.
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4. Main Goals and Objectives of the Development Plan with Indication of Terms and Stages of Its Implementation

The educational program "Food Technology" was created based on employer demand.

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

The main tasks 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		
Quantitative indicators									
1	The total number of students	human	600	600	600	610	610	Increasing the number of students	Allocation of grants from the Ministry of Education and Science for training under the state educational order
2	The number of students accepted for training under the state educational order	human	580	580	580	590	590		
3	The share of AltynBelgi students, winners of international Olympiads and competitions of scientific projects of the last three years, winners of presidential, republican Olympiads and competitions of scientific projects of the current academic year (awarded with diplomas of 1,2,3 degrees)	%	2	2	3	3	3	Improving the quality of education	Improving career guidance

	from their total number								
4	Number of foreign students		2	2	2	3	3	International cooperation	Allocation of grants to the Ministry of Education and Vocational guidance
5	The share of graduates employed in the 1st year after graduation (from the total number of graduates)	%	70	72	73	75	75	Increase in the percentage of employment	High-quality personnel training, development of an educational program with the participation of stakeholders
6	Number of students enrolled in academic mobility (external)	human	3	3	3	4	4	An increase in students within the framework of academic mobility (external), the acquisition of additional skills of students	Development of international cooperation
7	Number of students enrolled in academic mobility (internal)	human	5	5	5	6	6	An increase in students within the framework of academic mobility (internal), the acquisition of additional skills of students	Development of cooperation with universities of the Republic of Kazakhstan
8	The number of students enrolled in double-degree education	human	4	4	4	5	5	Opportunities for obtaining knowledge in various universities of the Republic of Kazakhstan in order to	Development of international cooperation

									develop professional competencies	
9	The number of students studying in English	unit	15	15	15	20	20	Admission to Master's degree programs and foreign universities	Free foreign language training courses for further study in a multilingual group	
Direction 1: Improvement of academic activities/improvement of the content of the educational program										
10	Development/update of the educational program based on professional standards with employer involvement	Unit	-	1	-	-	1	Satisfying the market with competitive graduates	Maintaining close communication with employers	
11	Passage of specialized accreditation/ reaccreditation 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	
12	Development of joint and double-degree educational programs	number of educational programs	-	-	1	-	-	Improving the quality of student training	Development of international cooperation	
13	The positions of the educational program in the ratings (Atameken, NAAR, QS, etc.)	place	3	3	2	2	1	Increasing the position of the educational program in the ratings	High qualitative and quantitative indicators of ratings	
14	The introduction of innovative teaching methods into the educational process	unit (a ct of implementation)	1	1	1	2	2	Improving the quality of training of students, motivation of students	Development of innovative methods of teaching and professional development of teaching staff	
15	Number of textbooks and teaching aids	unit	4	4	5	6	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
16	The number of contracts with employers in practice	unit						Practice-oriented training, possible employment	Cooperation with stakeholders
Direction 2 Development of human resources									
18	The number of teaching staff who have completed advanced training in the profile of the disciplines taught (72 hours)	unit	30	4	5	30	5	Advanced training of teaching staff in the profile of the disciplines taught	Financial security
19	Number of teaching staff who have completed advanced training/internships in inclusive education (72 hours)	number of teaching staff	1	1	1	2	2	Advanced training of teaching staff in inclusive education	Financial security
20	Number of teaching staff/ percentage of teaching staff who have completed advanced training in foreign universities, research institutes	human / %	3/10	3/10	6/20	6/20	9/30	Advanced training of teaching staff at foreign universities, research institutes	Financial security
21	Number of PPS/ share	human / %	6/20	6/20	9/30	9/30	12/40	Professional development of teaching staff and professional skills	Financial security
22	Teaching staff who have completed internships	human	2	2	2	2	2	Practice-oriented student learning	Close cooperation with stakeholders
23	The number of practitioners involved in lectures	human	1	1	1	1	2	Opportunities for students to gain additional knowledge in various fields	Cooperation with universities of the Republic of Kazakhstan
24	The number of attracted domestic teachers within the framework of internal academic mobility	human	1	1	1	1	2	Opportunities for students to gain	Financial support for cooperation with foreign

								additional knowledge in various fields	universities
25	Number of teaching staff/ percentage of teaching staff teaching in English	human / %	6/20	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
26	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
Direction 3. Development of research potential									
27	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
28	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
29	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
30	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
31	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
32	The number of patents obtained	Unit	5	5	6	7	8	The	Financial

	within the framework of research, implemented at the expense of the state budget	t							possibility of introducing new knowledge	support, research results
33	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
34	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
35	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
36	Number of copyright certificates, patents	number	5	5	6	7	8		The possibility of introducing new knowledge	Financial support, research results
37	The number of students who have won Olympiads, research competitions, etc.	Unit	2	2	2	3	3		Improving the rating of the Educational program and motivating students	Students' interest and activity
Direction 4. Improvement of infrastructure and material and technical base										
38	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
37	Number/Share of disciplines in which online courses (MOOCs) have been developed	Unit /%	3/2	6/3	6/3	6/3	9/4		Integration of MOOC courses	Highly qualified teacher and relevant information software

38	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
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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 specialist competencies and disciplines of the specialty 2024 - 2029	November 2024 – April 2025 (further annually until 2029)	Head of the department The faculty team of the educational program	Developed position son competencies
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 for med Dedicational 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 (here Interannually 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.

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