



NJSC SHAKARIM UNIVERSITY OF SEMEY

DEVELOPMENT PLAN EDUCATIONAL PROGRAM

7M01504 - Chemistry

Semey

SHAKARIM UNIVERSITY OF SEMEY

APPROVED

Member of the Board of Directors for Academic
Affairs _____ I. Orakmova

" 06 " _____ 06/07/2023



PLAN DEVELOPMENT EDUCATIONAL PROGRAMS
"7M01504-Chemistry"
on 2023-2025

Semey 2023y.

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1. Passport Plan development EP "7M01504–Chemistry"

1	Base For development	Shakarim University Strategic Plan for 2021-2025. Faculty work plan
2	Developed by Academic committee EP	Supervisor AK: Mukaev Zh. T., dean EMF EP manager: Ontagarova D. R., senior lecturer, Ph.D. Members of the AK: Rakhimzhanova A. M., PhD Head of Department Nurenkova A. N., Associate Professor, Ph.D. Shariphan D. E., teacher chemistry secondary school No. 27 Semey Kaliev A. K., teacher chemistry secondary school No. 4 Semey. Sovetbekova A. K., master's student MXE-201, 7M01504- "Chemistry" Toleubekov B. E., master's student MXE-201, 7M01504- "Chemistry "
3	Deadlines implementation	2023-2025 y
4	Expected results implementation	In connection with improving the quality of education, preparing competent, adapting to changing conditions of the labor market, competitive, innovation-oriented specialist, in the Kazakhstan higher education system Education approaches to the design of educational programs are changing. New conditions change Not only the role of education in society, But this goals, tasks And content, What dictates necessity permanent updates programs, educational and methodological materials.

2. Analytical justification EP

2.1 Intelligence about educational program:

The educational program is developed in accordance with the National Qualifications Framework and Occupational Standards, in accordance with the Dublin Descriptors and the European Qualifications Framework. The typical period for completing a master's degree program is 2 years.

EP7M01504-X name developed Academic committee.

Considered on meeting Commissions By ensuring quality Natural-mathematical faculty (ProtocolNo.4.1 from"4" April 2023y.).
Approved on meeting Scientist council university(Protocol No. 8 from « » April 2023).

The main criterion for the completion of the educational process is the completion of at least 120 credits, with award degrees master pedagogical sciences educational program 7M01504-Chemistry.

2.2 Intelligence about students By EP

Trainingyear	2023-2024 trainingyear	2024-2025 trainingyear
The basistraining		
Grant	6	10
Agreement	1	2
Total	7	12

2.3 DomesticAnd external conditions For development EP

EP 7M01504 - Chemistry includes components for preparing for professional activities. This is reflected in the topics and list of tasks for laboratory and practical classes, in the list of types and forms of completing tasks for the student's independent work. Various forms of conducting classes (traditional and frontal and demonstration experiments, case methods and project teaching methods, problem-based and step-by-step, modular teaching methods), completing master's theses, and undergoing professional practices also form professional qualities. The activation of cognitive, scientific and creative activities is facilitated by the participation of undergraduates in seminars, round tables and conferences.

Course curricula, content of lectures, practical and laboratory classes are adjusted taking into account the renewal of the library collection, the requirements of internal and external regulatory documents and concepts of educational development. EP training sessions are conducted in 15 classrooms. Practical training of EP students is carried out through practical training and research work, which are the most important link in the system of professional training of future specialists. Internships are focused on deepening, systematizing, generalizing and concretizing theoretical knowledge acquired at the university, and improving professionally significant skills and abilities.

The university has concluded cooperation agreements on the implementation of external academic mobility programs for students with 30 universities in foreign countries, as well as internal academic mobility of students with 19 universities in the Republic of Kazakhstan.

General control over the employment process of university graduates is carried out by the head of the Career and Employment Department. Every year, the university appoints those responsible for employment at the faculty level and at the level of graduating departments. Also, the university hosts a university-wide job fair with the participation of employers from different fields of activity. According to the EP “7M01504 - Chemistry”, specialists are graduated annually, the employment rate is 100%.

Dual training in educational organizations is carried out during the period of professional training of full-time students to gain practical experience taking into account the content of the modules of the educational program in accordance with the curriculum.

2.4 Intelligence Oteaching staff,implementingeducationalprogram

No.	Indicators	Unit.	2023-2024 training year	2024-2025 training year
1	Share teaching staff with scientific degree By EP	%	100	100
2	IN volume number share teaching Staff With scientist degree By cycle OOD	%	100	100

2.5 Characteristic achievements EP

- ✓ demand for specialists with higher pedagogical education in the region;
- ✓ the share of graduates who studied under government orders and are employed in their specialty is 100%;
- ✓ sufficient level of calmness; the share of full-time teaching staff with academic degrees and titles is 53%;
- ✓ high lecture skills and mentoring and the presence of basic education of teaching staff;
- ✓ use of innovative teaching methods by teachers during training sessions;
- ✓ availability of continuity at two levels of bachelor's and master's degrees;
- ✓ formation of practical skills of students taking into account the real needs of employers;
- ✓ availability of educational laboratories equipped with laboratory equipment and instruments;
- ✓ the information and library collection in the specialty is complete, all disciplines are provided with educational, educational, methodological and scientific literature;
- ✓ provision of non-resident students with a hostel;
- ✓ active participation of teaching staff and students in cultural events.

3. Basic tasks development plan EP

The goals and objectives of the development of EP 7M01504 "Chemistry" in accordance with the mission of the university are:

- ✓ ensuring professional training and personal development of a teacher capable of carrying out the process of social and pedagogical training and education of a child at a high level;
- ✓ filling the labor market with competitive teachers focused on professional growth, civic values, social responsibility and competencies in accordance with the requirements for this area of training.
- ✓ fulfillment of the social order of society for the development and formation of specialists in demand in the system of chemical and biological education;
- ✓ increasing the level of quality of education in accordance with the requirements of national and international standards based on the formation of motivation of students for professional improvement and self-realization;
- ✓ mastery of key, subject and professional competencies for subsequent successful professional activities;
- ✓ forming the readiness of undergraduates to organize and conduct research activities in the field of chemical education.

4 Analysis risks EP

No.	Name risks	Events By eliminating
1	Outdated training and laboratory facilities	Creation of a modern educational, research and laboratory base on the basis of public and private partnerships, the purchase of modern laboratory equipment.
2	Weak practical skills of students in using modern methods of scientific research.	Practice the implementation of modern techniques and methods of scientific research in biology.
3	Insufficient development of external and internal academic mobility of undergraduates and teaching staff.	Intensifying international scientific cooperation
4	The risk of a decrease in the degree of teaching staff in the EP.	To increase the level of teaching staff by enrolling young specialists in PhD doctoral studies.
5	EP development plans undergo public discussion with a small number of representatives of interested parties, based on whose proposals and amendments changes could be made to the planning and management of EP;	Expand the opportunities for developing practical skills of undergraduates, taking into account the real needs of employers.
6	Insufficient activity of participation of teaching staff in competitions for the implementation of grant scientific projects financed by the Ministry of Military Education and Science of the Republic of Kazakhstan and other funds;	Increases here participation teaching staff V competitions on performance grant scientific projects financed by the Ministry of Education and Science of the Republic of Kazakhstan and others funds;

5.Event plan By development EP

No.	Criteria	Expected results	Unit change	2023-2024	2024-2025
1.1	Educational update programs based - professional standards With taking into account recommendations employers	Carrying out examination EP 7M01504– Chemistry for the purpose of increasing practice- oriented and development professional competencies graduates	fact.	1	1
1.2	Monitoring and up date catalogs elective disciplines in Accordance With development key and professional competencies, requests market labor	Improving the quality of the content of educational programs through the inclusion of elective courses aimed at developing key and professional competencies of graduates in accordance with the demands of the labor market.	fact.	1	1
1.3	Introduction into the educational process of modern teaching technologies that contribute to the development of cognitive activity and communicative ability of students	Improvement quality teaching educational disciplines with taking into Account novelty and diversity forms works, promoting development educational activity students.	fact.	All disciplines By components optionally	All disciplines By components optionally
1.3.1	Introduction into the educational process of massive open online courses (MOOCs) according to the educational program 7M01504 - Chemistry	Improvement quality teaching educational disciplines with taking into Account novelty and diversity forms works, promoting development cognitive activity students.	units	1	1
1.4	Involvement of social partners and employers to development, examination and implementation educational programs	Improving the quality of products sold educational programs taking into account requests market and recommendations employers	units	2	2

1.5	Development and implementation elective courses on English language	Introduction of disciplines in English into the educational process	units	-	-
1.6	Carrying out seminars and roundtables by application innovative technologies in Educational process	Introduction of innovative technologies Into training process	units	1	1
1.7	Publication of educational, educational, methodological and scientific literature on implemented EP	Improvement educational and methodological security in the disciplines implemented educational programs	units	2	2
1.8	Concluding agreements with foreign and domestic partner universities in order to develop academic exchange of students of all levels and teaching staff	Creating a Data base foreign and domestic Universities–partners For development academic exchange students every one levels and faculty composition	units	9	10
1.9	Invitation of students from universities partners on education on semester, short-term in tern ships, practice and etc.	Development international recognition educational programs, implementation programs academic mobility students	people	-	1
1.10	Participation teaching staff and students v international Programs academic exchange	Development international cooperation With foreign universities implementing educational programs By direction	people	-	-
1.11	Development out going academic mobility of teaching staff and students direction EP7M01504-Chemistry	Improving Educational programs on basis use experience implementation similar programs V leading foreign universities	people	1	1
2.1	Professional development Level And Preparationscientific pedagogical personnel For implementation educational programs once every3of the year	Share teaching staff, past promotion qualifications on republican And international level Not less 20%	people	1	2

2.2	Passing promotion qualifications, retraining, internships teaching staff on international level	Walkthrough Not less 2 teachers programs promotion qualifications, retraining, internships teaching staff on international level	people	1	2
2.3	Promotion publications works teaching staff V international publications, indexed by Web of databases Science and Scopus	Increases hares teaching staff, published results of scientific research in publications, indexed by Web of Science databases And Scopus– Not less thirty % from the total numbers teaching staff	%	thirty	thirty
2.4	Attraction to teaching and scientific activities specialists practical spheres activities	Participation in the implementation of educational programs of practitioners (at least 20% of specialists)	%	20	20
3.1	Conclusion of contracts for international cooperation With foreign Universities	Implementation of joint projects, preparation scientific publications With foreign partners, Creation bases For passing scientific internships for students	units	thirty	32
	Attracting Foreign students For training By educational program 7M01504 -Chemistry	Increase quantities foreign students	people	-	1
3.3	Organization joint scientifically- practical events With international partners	Increasing the efficiency of scientific and research methodological activities teaching staff, exchange experience With foreign partners	units	1	1
3.4	Invitation of Foreign specialists For reading lectures And consultations By master's degree projects and dissertations	Improvement meaning ful component educational programs on basis implementation of the experience of foreign specialists in implementation educational programs	units	-	1

3.5	Extension cooperation With advanced foreign scientific educational organizations With purpose attracting most qualified Foreign specialists for implementation educational programs	Formation of key and professional competencies incompliance With practice leading universities	people	-	-
4.1	Phased equipment education al audiences technical means training (panels, interactive And multimedia boards, multifunctional devices, Webcam And etc.)	Equipment assigned behind department classrooms Using technical means training (panels, interactive And multimedia board, multifunctional devices, Webcamand etc.)	units	1	1
4.2	Carrying out automation educational process(testing, control session, movement contingent master's students, dean's office department, load teachingstaff, schedule, library, syllabuses)	Control information on basis automation educational process(testing, session management, movement contingent master's students, dean's office department, load teaching staff, schedule, library, syllabuses)	fact.	All EISO	All EISO
4.3	Replenishment full text bases results scientific research teachingstaff And students, teaching staff (articles, monographs And etc.)	Increasing the number of scientific results works scientists, research teaching staff And students, teaching staff(articles, monographs And etc.)	units	2	3
4.4	Expansion of the scientific and educational Fund literature, V volume number on electronic media By implementededucational programs	Security implementation educational programs on basis modern educational And information resources, V Volume number on electronicmedia	%	100	100
4.5	Fill monitoring and Improvement site faculty	Formation site faculty By various aspects of implementation educational programs.	%	100	100

Head of the department _____

PhD, Rakhymzhanova A.M.

REVIEWED

at a meeting of the Quality Assurance Commission
Chairman of the commission _____ Zheldybaeva B.S.
Protocol № 6, June 06, 2023

APPROVED

Dean of the Faculty _____ Mukaev Zh.T.
" " _____ 2023