NON-COMMERCIAL JOINT STOCK COMPANY
ABAI KAZAKH NATIONAL PEDAGOGICAL UNIVERSITY

FACULTY OF "NATURAL SCIENCE AND GEOGRAPHY"

"APPROVED"
Dean of the Faculty
_____ K. Kaimuldinova
"16" 01 2023

EDUCATIONAL PROGRAM DEVELOPMENT PLAN
8D01515 – GEOGRAPHY
for 2023–2029

ALMATY, 2023

The Educational Program Development Plan 8D01515-Geography was developed on the basis of the quality policy and development strategy of "ABAI UNIVERSITY" for 2023–2029.

Approved at the meeting of the Faculty Council of Natural Science and Geography

Minutes No.5 dated January 25, 2023

Chair _____ K. Kaimuldinova

Reviewed at the meeting of the Department of "Geography and Ecology"

Minutes No.5 dated January 15, 2023

Head of Department _____ D. Aliaskarov

EPD Director _____ Sh. Karbaeva

Quality education is the foundation of specialist competence!

FOREWORD

Educational Program Development Plan 8D01515 – Geography for 2023–2029.
Education Area Code and Name: 8D01 Pedagogical Sciences
Training Direction Code and Name: 8D015 – Training of Teachers in Natural Science Subjects
Educational Programs Group: 8D01515 – Geography

The program strategy is aimed at the formation and implementation of the established competency model, as well as expanding the potential circle of employers.

Mission of the Educational Program: Training of scientific personnel capable of anticipating the needs of modern education, based on advanced methodologies, national heritage and global approaches. We raise the prestige of the teaching profession and become a driver of human capital development.

Goal of the Educational Program: Training of Doctors of Philosophy (PhD) with fundamental knowledge in the field of natural science disciplines, capable of carrying out professional activities corresponding to the training profile, competent and ready for continuous professional development in the context of natural scientific thinking and worldview.

ANALYSIS OF THE CURRENT SITUATION

General information about the educational program

EPD development plan developers	Department representatives: Kaimuldinova K.D., Karbaeva Sh.Sh. Employers: Herzen State Pedagogical University of Russia, Faculty of Geography, Saint Petersburg, Russia. Al-Farabi Kazakh National University, Faculty of Geography and Environmental Management. L.N. Gumilyov Eurasian National University, Faculty of Natural Sciences. Altynsarin National Academy of Education. Doctorates of 8D01515 – Geography: Aliaskarov Duman, Salbyrov Makpal (2018-2019), Beikitova Albina (2020-2021), Usenov Nurbol, Shakirova Nurjanat (2021-2022), Isakov Erlan (2022-2023).
Academic degree:	Doctor of Philosophy (PhD) in Educational Program 8D01515 – Geography
Year of establishment:	2014
Language of instruction:	Multilingual (Kazakh, Russian, English)
Mode of study:	Full-time
Duration of study:	3
Credit volume:	180
Uniqueness of EP:	Quality education of students through interaction with potential employers
Graduate model:	Upon completion of this educational program, doctoral students are expected to be able to: - ready to propose and reasonably justify contemporary issues in natural sciences and ways to solve them;

	- able to use acquired knowledge for developing and applying ideas in the context of scientific research; - prepared to create new values, make creative decisions, and engage in pedagogical cooperation; - possesses skills of socio-cultural and intercultural communication ensuring adequacy of social and professional contacts; - able to initiate, design and carry out comprehensive research based on a holistic, systematic scientific worldview; - able to apply results of various scientific developments for systematic solutions to natural science education tasks; - can lead others in research activities, capable of being a leader and making independent decisions.
Types of professional activity:	1. Educational (pedagogical): implementation of educational goals through various means. 2. Teaching and upbringing: realization of teaching and upbringing tasks in addressing significant problems. 3. Teaching and technological: an interconnected system of educational activities of a teacher aimed at solving pedagogical tasks. 4. Socio-pedagogical: creating favorable conditions for personal development of students. 5. Experimental and research: engaging students in scientific activities. 6. Organizational and managerial: use of specific skills, tools and methods. 7. Information and communication: raising computer literacy to the level of a qualified user for solving professional tasks.
Academic mobility partners (internal and external):	External academic mobility: Pomeranian Academy in Słupsk (Poland); University of Poitiers (France); Sofia University "St. Kliment Ohridski" (Bulgaria); University of Lorraine (France); Mykolas Romeris University (Lithuania); Vilnius University (Lithuania); Vytautas Magnus University (Lithuania); University of Debrecen (Hungary); Nigde Omer Halisdemir University (Turkey); Muğla Sıtkı Koçman University (Turkey); Giresun University (Turkey); Uludag University (Turkey); Tomsk State University (Russia); Belarusian State Pedagogical University named after Maxim Tank (Minsk). Internal academic mobility: Al-Farabi KazNU, L.N. Gumilyov ENU, Zhetysu State University named after I. Zhansugurov. Aktobe Regional University named after K. Zhubanov; Atyrau University named after Kh. Dosmukhamedov; Korkyt Ata Kyzylorda University.
Graduate employment rate:	98%
License annex for training area:	АБ No. 0110076 dated 03.02.2010
Key partner organizations:	Al-Farabi Kazakh National University, Faculty of Geography and Environmental Management. L.N. Gumilyov Eurasian National University, Faculty of Natural Sciences. Altynsarin National Academy of Education.
Expected final results of EPD development plan implementation:	- improving the quality of doctoral training by developing high-level research, analytical and pedagogical competencies meeting modern requirements of science and higher education; - increasing citation of scientific works, growth of scientific output,

	increasing the number of publications in peer-reviewed international journals indexed in Scopus and Web of Science; - increasing the share of doctoral students successfully and timely defending doctoral dissertations; - expanding academic mobility, organizing international research internships and attracting foreign scientific consultants; - interaction with employers and scientific organizations through development of partnerships and their active participation in the design, implementation and evaluation of the educational program; - implementation of modern educational technologies and teaching methods; - development of the program's human resource potential through professional development of faculty; - participation of faculty and students in international scientific projects and grant research; - employment of graduates in their specialty in scientific, educational and professional spheres; - improving competitiveness and ranking of the educational program.

Main risks of the educational program

Risk name	**Possible consequences**	**Mechanisms and management measures**
Staffing of the program	Limited number of teachers and research supervisors	Mechanism for allocating research supervisors considering their scientific specialization, publication activity and experience in doctoral training, as well as practice of attracting foreign scientific consultants.
Level of applicant Preparedness	Completion of dissertation works within established deadlines	Improvement of selection procedures including assessment of basic academic preparation, research potential, motivation for scientific activity, and level of foreign language proficiency.
Internationalization of Programs	Lack of sustainable international partnerships	Development of international cooperation including establishing and expanding partnerships with foreign universities and research centers, as well as implementing joint scientific and educational projects.

SWOT Analysis of educational program implementation

	Strengths	Weaknesses
Internal factors	- the content of the educational program corresponds to modern trends in science and labor market requirements; - the program is oriented toward research training of doctoral students; - the educational process is closely connected with science and practice through interaction with employers, scientific organizations and professional communities; - modern educational technologies are used in teaching (digital, project-based and research methods); - opportunities for academic mobility, participation in international internships and scientific conferences are provided.	- limited development of scientific schools and priority research areas within the educational program; - insufficient continuity of training and involvement of doctoral students in real scientific projects; - weak organization of the process of attracting foreign scientific consultants.
	Opportunities	**Threats and risks**
External factors	- expanding educational opportunities (digital technologies and online platforms) and introduction of hybrid learning; - training of highly qualified scientific specialists; - increasing competitiveness of program graduates; - inclusion of doctoral students in the international scientific space through publications in foreign journals and participation in scientific conferences; - development of partnerships with employers and scientific organizations.	- difficulties in international cooperation (insufficient level of foreign language proficiency); - decrease in publications in international journals due to high quality and selection requirements; - implementation of doctoral students' scientific projects.

1. MAIN OBJECTIVES OF EDUCATIONAL PROGRAM DEVELOPMENT

Direction 1. Expanding access to university educational services

No.	Performance indicators	Unit	2023	2024	2025	2026
1.	Student enrollment in EPD 8D01515 – Geography	Units	16	19	24	23
2.	Admission to EPD	Units	6	9	8	-
3.	Graduation	Units	6	4	5	6

Direction 2. Innovative support of educational activities

No.	Performance indicators	Unit	2023	2024	2025	2026	Responsible executors	Completion form
1.	Decision on EPD type (current, new, innovative, interdisciplinary,	units	D-1	D-1	D-1	D-1	graduating department	EPD

	additional (minor), joint EP)							
2.	Participation of EPD in EPD rankings	fact	+	+	+	+	graduating department	EPD Rating Results
3.	EPD Accreditation	fact				+	graduating department	Accreditation Result
4.	Completion of post-accreditation monitoring	fact				+	graduating department	Monitoring Results
5.	Update of EPD considering labor market requirements	fact	+	+	+	+	graduating department	Updated EPD, Expert Conclusions
6.	Analysis of EPD compliance with university strategic development plan	fact	+	+	+	+	graduating department	Department meeting minutes
7.	Holding round tables on integration of competencies into the educational process	fact	+	+	+	+	graduating department, employers	Memo, protocol
8.	Number of industry specialists involved in the educational process	persons	1	2	2	2	graduating department	Contracts, memoranda
9.	Analysis of availability of faculty with relevant potential for EPD development	%	100	100	100	100	graduating department	Faculty staffing schedule
10.	Share of faculty who completed professional development courses in subject area	%	100	100	100	100	graduating department, faculty	Certificates, diplomas
11.	Share of EPD graduates employed in the first year after graduation (of total graduates)	%	100	100	100	100	graduating department	Employment results
12.	Share of EPD graduates trained under state order, employed in first	%	100	100	100	100	graduating department	Employment results

	year after graduation in EPD specialty							
13.	Share of university graduates participating in assessment of quality of educational services (full-time)	fact	50%	50%	50%	50%	graduating department	Presence in committee
14.	Organization of work within the framework of the "Silver University"	fact	-	+	+	+	graduating department	Report
15.	Participation of doctoral students in defining program content	fact	+	+	+	+	graduating department, students	As members of EPD drafting committee
16.	Number of employers participating in assessment of quality of specialist training	units	2	2	2	2	EPD Employers	Contracts, memoranda, expert conclusions
17.	Share of students participating in assessment of teaching activities of faculty	%	50	50	50	50	graduating department, students	Survey results
18.	Number of teaching methodological manuals developed in Kazakh language	units	1	2	2	2	graduating department, students	Discipline developments
19.	Number of teaching methodological publications developed by faculty on EPD specifics	units	2	3	3	3	graduating department	Teaching methodological publications, textbooks
20.	Opening of pedagogical retraining courses for graduates of non-pedagogical specialties	fact	-	1	1	1	graduating department	Order on student enrollment
21.	Preparation of graduates for NQT	fact	+	+	+	+	graduating department	NQT Certificates

Direction 3. Internationalization of the program

No.	Performance indicators	Unit	2023	2024	2025	2026	Responsible executors	Completion form
1.	Inter-university partnership within EPD: Dual-degree EPDs	units					graduating department	SOP, Dual-degree EPD
	with foreign university	units	-	-	-	-		
	with Kazakhstani university	units	-	-	-	1		
2.	Number of EPD students participating in internal outgoing academic mobility programs	units	-	-	-	-	graduating department, academic mobility center	Order, student transcript
3.	Number of EPD students participating in internal incoming academic mobility programs	units	-	-	-	-	graduating department, student	Order, student transcript
4.	Number of faculty participating in internal outgoing academic mobility programs	units	-	1	1	1	graduating department, faculty, academic mobility center	Order, report
5.	Number of faculty participating in internal incoming academic mobility programs	units	-	1	1	1	graduating department, faculty, academic mobility center	Report
6.	Number of invited foreign scholars	units	1	1	1	1	graduating department	Report
7.	Number of faculty participating in external outgoing academic mobility programs	units	-	1	1	1	graduating department, faculty, academic mobility center	Report

Direction 4. Expansion of research and innovation activities

No.	Performance indicators	Unit	2023	2024	2025	2026	Responsible executors	Completion form
1.	Number of faculty participating in	persons	6	6	5	5	graduating department	Report

	educational and research projects							
2.	Number of faculty participating in fundamental and applied research	persons	6	6	5	5	graduating department	Report
3.	Number of publications in journals in Q1, Q2, Q3 quartiles per Journal Citation Reports (Clarivate) or with Scopus CiteScore percentile	units	4	4	5	5	graduating department	Database indicator
4.	Number of doctoral students' articles published in journals with non-zero impact factor indexed in Thomson Reuters/Scopus	units	4	4	5	5	graduating department, doctoral students	Database indicators
5.	Participation in international scientific-practical conferences and symposia	acts	4	6	8	10	graduating department	Journal collection, media and social media links
6.	Meetings of doctoral students with prominent figures in geographical science	fact	1	3	4	4	graduating department	Media and social media links
7.	Number of R&D projects performed within international cooperation	units	1	1	1	1	graduating department	Report
8.	Number of faculty publications in journals recommended by KOKSNVO	units	3	3	6	8	graduating department	Report
9.	Number of teachers participating in the Republican competition "Best Teacher"	units	1	1	4	-	graduating department	Competition results
10.	Number of student publications	fact	12	18	22	24	graduating department, students	Report

11.	Number of students participating in scientific research and competitions	units	2	2	4	2	graduating department, students	Report
12.	Operation of scientific centers and laboratories: GIS Laboratory, Geoecological Laboratory	fact	1	1	1	1	graduating department, students	Classroom fund

Direction 5. Improvement of infrastructure and material-technical base

No.	Performance indicators	Unit	2023	2023	2024	2025	Responsible executors	Completion form
1.	Development of computer facilities	fact	+	+	+	+	graduating department	Infrastructure modernization
2.	Acquisition of software	fact	+	+	+	+	graduating department	Infrastructure modernization
3.	Acquisition of laboratory equipment and other items	fact	+	+	+	+	graduating department	Infrastructure modernization
4.	Replenishment of library fund	fact	+	+	+	+	graduating department	Infrastructure modernization
5.	Acquisition of furniture	fact	+	+	+	+	graduating department	Infrastructure modernization

Direction 6. Career guidance work within EPD

No.	Performance Indicators	Unit	2023	2024	2025	2026	Responsible executors	Completion form
1.	Providing presentations to geography master's students on online/offline platforms, handout materials with information about this educational program; list of documents required for admission, university ranking, its material and technical base, and admission	fact	+	+	+	+	graduating department	Report, social media links

	opportunities at ABAI UNIVERSITY							
2.	Identification of talented master's students in the field of study at Kazakhstani and foreign universities	fact	-	+	+	+	graduating department, faculty, students	Memorandum, agreement
3.	Holding department meetings on career guidance and preparation for master's student enrollment, organizing working groups on key areas	fact	+	+	+	+	graduating department	Report on student enrollment
4.	Conducting online lessons using faculty, providing methodological assistance to support Abai University graduates	fact	+	+	+	+	graduating department	Report, Protocol
5.	Providing methodological support to doctoral students during research and industrial internships	fact	+	+	+	+	graduating department	Report, Protocol
6.	Creating a collection of video lessons in the direction "Modern Geographical Science"	fact	+	+	+	+	graduating department	Report, Protocol
7.	Implementation of the KIDS UNIVERSITY project	fact	-	+	+	+	graduating department	Report

Direction 7. Educational work within EPD

No.	Performance indicators	Unit	2023	2024	2025	2026	Responsible executors	Completion form
1.	Holding events according to the institute's educational work plan	fact	+	+	+	+	graduating department	Report, social media links