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Higher and Postgraduate Educational Programs

☐ Project EP ☐ Participant of project EP

Date of registration in the Registry

13.08.2021

Registration number

8D01500060

Date of EP passport updating

27.05.2026 12:14

Field of education

8D01 Pedagogical sciences

Direction of personnel training

8D015 Training of teachers in Natural science subjects

Group of educational programs

D012 Teacher training in informatics (Kazakh, Russian, English)

Educational program

8D01504 Informatics

EP purpose

Training of competitive, competent scientific and pedagogical personnel possessing professional and research skills, their implementation in practical and scientific activities to meet the needs of science, education and production in the field of informatics

EP type

Acting EP

Level on NQF

8

Level on SQF

8

EP distinctive features

No

Language of education

multilingual

Professional Standard for EP

Exists

№	Name of professional standard
1	Professional standard: Teacher (faculty) of higher and (or) postgraduate education organizations

Professional standards (career standards)

Professional standard has been used at developing EP ☒

Professional standard №1

Professional standard

Профессиональный стандарт: для педагогов



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CCEA

Professions

Profession №1

Profession

Преподаватель, ассистент профессор

Уровень по ОРК

8

Labor functions

Осуществление научно-методической работы

Взаимодействие со стейкхолдерами высшего и послевузовск

Обучение

Проведение научных исследований

Социализация обучающейся молодежи

Volume of the credits

180

Degree to be conferred

Doctorate

Period of study

3

Date of approval EP on the Academic Council

27.04.2026

☒ Existence of the annex to the license for the direction of personnel training

The license number on the direction of training

KZ49LAM00007465

☐ The training format is online

☒ EP accreditation existence

Atlas of new professions

не предусмотрено

Regional standard

не предусмотрено

The formed educational outcomes

№	Educational outcome	Code	Reflects the labor function
1	Conduct experiments and process measurement results.	ON1	Проведение научных исследований
2	Apply the methods of organizing scientific research, theoretical	ON2	Проведение научных исследований Осуществление научно-методической работы
3	Provide arguments for conducting research activities in the field of	ON3	Проведение научных исследований
4	Create digital educational resources, design and manage the educational	ON4	Обучение Взаимодействие со стейкхолдерами высшего и послевуз
5	Critically analyse, evaluate and synthesize new approaches to the	ON5	Обучение Социализация обучающейся молодежи

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6	Demonstrate a systematic understanding of the field of study,	ON6	Проведение научных исследований
7	Apply the results of research works when writing scientific publications at	ON7	Проведение научных исследований
8	Develop mathematical models of objects with an implementation	ON8	Проведение научных исследований Осуществление научно-методической работы
9	Develop a modern information and educational environment for the	ON9	Обучение
10	Contribute their own original research to the development of	ON10	Проведение научных исследований

Data on disciplines

Nº	Name of discipline	Short description of discipline	Cycle
1	Academic Writing	The discipline forms the practical skills of doctoral students in writing research academic materials, including in English, choosing literature for writing scientific papers, develops the ability to carry out professional activities related to finding information in scientific databases, analyzing and abstracting texts, working with various genres of academic writing.	BD
2	Methods of Scientific Research	The discipline is aimed at developing skills of working with sources of scientific research, developing scientific work, gaining experience in the process of conducting scientific and practical research, developing a competence-based approach to using methods of scientific knowledge, planning and organizing experimental work, processing results and their registration.	BD
3	Current Issues in the Training of Future Informatics Teachers	The discipline examines the theoretical and practical foundations of professional training for computer science teachers in the context of the digitalization of education. The course content is aimed at developing digital, methodological, and professional competencies in future educators. During the course, the following topics are covered: the digitalization of education and its specific features; technologies of distance and blended learning; development of students' digital literacy; professional and digital competence of teachers; implementation of artificial intelligence and new technologies in the educational process; fundamentals of cybersecurity and information culture.	BD
4	Methodological System of Teaching Informatics and Informatization of Education	The purpose of the discipline is the formation of skills for developing a methodological system of teaching and problems of informatization of education. The course considers the following issues: studies the didactic principles of the development of educational and methodological complexes, methods of creating digital educational resources, etc.	BD
5	Scientific and Methodological Foundations of Informatics	The purpose of the discipline is to study the scientific and pedagogical aspects of teaching applied areas of computer science, scientific and methodological foundations of applied areas of computer science. The intensification of learning as a didactic concept, the search for ways of intensification in education.	PD
6	Application of Artificial Intelligence in Scientific and Educational Spheres	The discipline "Application of Artificial Intelligence in Scientific and Educational Spheres" covers theoretical and practical aspects of the introduction of AI in education and science. The course covers methods of machine learning, data processing, intelligent analysis, and the creation of adaptive educational systems. Particular attention is paid to research at the intersection of AI and pedagogy, digital transformations, and ethical issues.	PD
7	Modern Methods for Processing the Results of a Pedagogical Experiment	The purpose of the discipline is to prepare doctoral students to use mathematical methods in the processing of empirical data obtained as a result of research work. Modern technologies and methods of organizing educational activities, diagnostics and assessment of the quality of the educational process.	PD

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