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Higher and Postgraduate Educational Programs

☐ Project EP ☐ Participant of project EP

Date of registration in the Registry

21.08.2019

Registration number

8D01500035

Date of EP passport updating

27.05.2026 11:35

Field of education

8D01 Pedagogical sciences

Direction of personnel training

8D015 Training of teachers in Natural science subjects

Group of educational programs

D011 Teacher training in physics (Kazakh, Russian, English)

Educational program

8D01502 Physics

EP purpose

Training of competitive, competent scientific and pedagogical personnel with professional competencies that meet the requirements of the labor market, science and education in the field of physics and capable of self-development and social adaptation.

EP type

New 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 пед



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Professions

Profession №1

Profession

Преподаватель, ассистент профессор

Уровень по ОРК

8

Labor functions

- Проведение научных исследований
- Социализация обучаю
- Обучение
- Взаимодействие со стейкхолдерами высшего и послевузовск
- Осуществление научно-методической работы

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	Analyze and process information from various bibliographic sources; formulate, justify, and communicate ideas to the target	ON1	Проведение научных исс
2	Apply technologies and methods of teaching general and theoretical physics in higher education; select and use	ON2	Обучение Социализация обучающе Осуществление научно-м
3	Organize, design, and implement scientific and pedagogical research; analyze and critically evaluate the quality and	ON3	Осуществление научно-м Проведение научных исс
4	Demonstrate advanced knowledge of fundamental areas of physics and skills in applying knowledge of modern physics	ON4	Проведение научных исс
5	Critically evaluate problems, approaches, and trends reflecting the current state of science education; analyze paradigm shifts in	ON5	Проведение научных исс

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6	Design and test the principles of organizing students' research activities within the educational process.	ON6	Обучение
7	Design management activities based on the analysis of factors of self-development and self-organization in the education system;	ON7	Обучение Социализация обучающе

Data on disciplines

№	Name of discipline	Short description of discipline	Cycle
1	Academic Writing	Examines the theoretical foundations of research methodology, standards for presenting research results and formatting academic texts, features of communication and scientific style, and issues of scientific argumentation. Contains practical recommendations for writing scientific papers.	BD
2	Methods of Scientific Research	Examines the methods of scientific research, various levels of scientific knowledge. It includes the stages of research, recommendations for choosing the research direction, setting a scientific problem, conducting theoretical and experimental research, and recommendations for formatting the results of research work.	BD
3	Organization of Project and Research Activities of Students	Theoretical approaches to the study of students' design and research activities, types of design and research activities in an educational institution, mechanisms for implementing design and research activities in higher education, criteria for evaluating students' design and research activities are considered.	BD
4	Management in Higher Education	The discipline is intended for formation and expansion of knowledge and competences in the field of theory and practice of management of educational institutions and their divisions in the conditions of modernization of system of the General and professional education. Manager in education is a multi-profile Manager responsible for personnel, reporting, systematic pedagogical process, quality of educational services and competitiveness of the educational institution.	BD
5	Application of Artificial Intelligence in Scientific Research in Physics	The course «Application of Artificial Intelligence in Scientific Research in Physics» is aimed at equipping doctoral students with the knowledge and skills needed to use modern AI technologies in physics. The curriculum covers key AI algorithms and models, including machine learning, neural networks, and intelligent data analysis.	BD
6	Modern Educational Technologies in Physical Education	The discipline is aimed at forming a scientific understanding of pedagogical activity in the higher education system. The objectives of the study are the formation of competencies that allow you to implement these activities aimed at preparing for the teaching of physical disciplines and professional disciplines in higher education institutions. The distinctive features of modern educational technologies, the qualitative originality of educational technologies, the boundaries and conditions of the use of modern educational technologies, the effects of use, the theoretical aspects of the design of modern educational technologies are considered.	PD
7	Didactic Bases of Methods of Teaching Physics	The discipline is devoted to the study of didactic foundations of methods of teaching physics and is aimed at the development of postgraduate pedagogical thinking, didactic skills, creative approach to solving problems of education. The development of discipline contributes to the successful professional activity.	PD
8	Modern Advances in Physics	This course focuses on the study of recent advances and current trends in fundamental and applied physics. It examines the latest research findings in various fields of physics, their theoretical foundations and experimental validation. Particular attention is paid to the analysis of contemporary scientific publications, the comparison of experimental data with theoretical models, and the development of independent research skills.	PD

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9	Experimental Physics	This course focuses on an in-depth study of modern methods of experimental research in physics. It covers the principles of designing a physics experiment, as well as methods for measuring, processing and interpreting experimental data. Particular attention is paid to experimental planning, the analysis of results and their comparison with theoretical models within the framework of independent research activities.	PD
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