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Higher and Postgraduate Educational Programs

☐ Project EP ☐ Participant of project EP

Date of registration in the Registry

19.08.2021

Registration number

8D01500061

Date of EP passport updating

29.05.2026 15:35

Field of education

8D01 Pedagogical sciences

Direction of personnel training

8D015 Training of teachers in Natural science subjects

Group of educational programs

D015 Teacher training in geography

Educational program

8D01505 Geography

EP purpose

Training of competitive scientific and pedagogical personnel with deep fundamental knowledge in the field of geog capable of solving complex tasks in professional activity.

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 пед



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CCEA

Professions

Profession №1

Profession

Преподаватель, ассистент профессор

Уровень по ОРК

8

Labor functions

- Обучение
- Осуществление научно-методической работы
- Социализация обучающейся молодежи
- Взаимодействие со стейкхолдерами высшего и послевузовского образования
- Проведение научных исследований

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 apply research results in writing scientific publications at	ON1	Проведение научных исследований
2	Demonstrate a systematic understanding in the field of	ON2	Проведение научных исследований
3	Process spatial information, perform cartographic tasks, and analyze data	ON3	
4	Manage scientific projects in the field of geographical education by	ON4	Проведение научных исследованийОбучение Взаимодействие со стейкхолдерами высшего и послевузовского образования
5	Implement the results of scientific research and geographical modeling	ON5	ОбучениеСоциализация обучающейся молодежи Осуществление научно-методической работы Проведение научных исследований

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6	Design the organization of global natural and socio-economic space	ON6	
7	Develop scientific projects in the field of geography and education using	ON7	Осуществление научно-методической работы Проведение научных исследований
8	Model and conduct the educational and upbringing process in higher	ON8	Обучение Социализация обучающейся молодежи Взаимодействие со стейкхолдерами высшего и послевузовского образования

Data on disciplines

Nº	Name of discipline	Short description of discipline	Cycle
1	Academic writing	Forms professional competencies and expands communicative competencies related to analytical textual activity; skills in writing research and critical texts, as well as a doctoral dissertation in accordance with international rules and standards when organizing research activities.	BD
2	Methods of scientific research	Forms a methodological culture, a system of knowledge, skills and abilities in the field of organizing and conducting theoretical and experimental research in geography. Considers the issues of methodology and methods of scientific research in modern geography, organization of scientific research and recommendations for choosing their direction, methodological principles of scientific research in geographical science and education.	BD
3	Artificial Intelligence in Education	Within the discipline, modern methods and technologies for the application of artificial intelligence in geographical education aimed at developing advanced subject-specific, interdisciplinary, and meta-disciplinary competencies of doctoral students are examined. The course studies approaches to analyzing and solving complex theoretical and practical problems using artificial intelligence methods, developing formal models for research tasks, and visualizing and interpreting results for scientific publications and pedagogical integration. Particular attention is given to the use of artificial intelligence applications for improving teaching, learning, and assessment processes in higher education, as well as to the design and implementation of independent research projects contributing to the advancement of science.	BD
4	Modeling in the system of geographical education	Considers the methodology for the formation of universal educational actions through geographical modeling in the process of teaching geography: diagnostic and prognostic, planning educational activities for creating geographical models, experimental, analytical, presentation of the results of geographical modeling and reflective and evaluative activities of students.	BD
5	Theory and methodology of geographical education and science	Considers the theoretical and methodological foundations of methodological science and methodological skills that provide a creative approach to the performance of the functions of a geography teacher, the methodological foundations of professionally oriented teaching of geography, methods for designing the results of scientific research in the field of geography into teaching materials, methods for implementing the educational process at a university for successful social interaction.	BD
6	Methods of Analysis of Geographic Spatial Data	The purpose of the study: To equip students with methods of analyzing geographic spatial data, enhancing their ability to process, interpret, and apply spatial information in scientific research. Brief content: The course introduces to methods of analyzing geographical spatial data. It covers techniques of data collection, processing, and visualization. Develop skills in applying GIS tools to study natural landscapes and socio-economic processes.	PD
7	Geoinformation modeling of geosystems	Considers modern methods of assessing natural phenomena by methods of imitation geomodelling of geosystems using modern GIS technologies, which allow automating the solution of a variety of tasks, ranging from calculating distances and areas, and ending with the construction of models of complex geosystems and processes in order to manage and predict future states.	PD

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8	Methodological aspects of modern geography	natural and socio-economic space, its differentiation, highlighting the main problems of natural and socio-economic development in the modern period, the development of creative abilities and the formation of a scientific worldview.	PD
9	Landscape-geoinformation research	The purpose of the study: To develop skills in investigating landscape systems using geoinformation methods, enabling spatial data analysis, cartographic visualization, and scientific interpretation of natural-geographical processes. Brief content: The course introduces to the development and application of landscape-geoinformation projects. It emphasizes the use of GIS technologies, data analysis, and visualization, fostering research skills within the learning process.	PD