

Project title: IRN №AP09260956 "Scientific and methodological foundations for the organization of the educational process in the conditions of distance learning at the Agricultural Research University".

Relevance: Significant changes are taking place in teaching activities in connection with the use of new information technologies in the system of distance education. If in traditional education the teacher spent most of the time explaining the material, now the teacher should:

1. Develop course content on a new technological basis.
2. Help the student navigate the vast and varied educational information and find the educational trajectory that suits him.
3. To ensure active interaction of the student with the teacher himself and with other students during the discussion of course issues.

Each of these main types of teaching activity is characterized by specific problems. So, the development of courses based on new technologies requires not only free possession of the subject, its content, but also special knowledge in the field of modern information technologies. Thus, during the educational process, we need special not only pedagogical, but also technological skills, experience with modern technical means.

In this connection, we plan to develop scientific and methodological foundations for organizing the learning process at an agricultural research university using distance technology. In our model, we expect to increase research skills, motivation of students and teachers. We also plan to analyze the best practices of French colleagues and introduce effective distance learning tools in the educational process of universities (using the example of S. Seifullin Kazakh Agro Technical University).

We understand that distance learning technologies are not innovative methods at this time, but a pandemic around the world has made it clear that there are problems and shortcomings in this area. In this regard, there is a need to review the scientific and methodological foundations of the organization of training in universities using distance technology.

The aim of the project is the formation of the scientific and methodological foundations of the organization of training using distance technology in an agricultural research university using the best practices of AgroPariTech (using the example of S. Seifullin Kazakh Agro Technical University).

Expected and achieved results:

- for 2021: Effective methods of organizing the educational process using distance learning technologies in agricultural universities will be determined. A review of the literature will be prepared, research will be conducted in the field of organizing the educational process using distance learning technologies in agricultural universities of the Republic of Kazakhstan. The scientific and methodological bases of the organization of the educational process with the use of distance learning technologies at the research university of agrarian profile (on the example of the Kazakh Agrotechnical University named after S. Seifullin) will be developed.

- for 2022: A methodology for organizing the educational process using distance learning technologies will be developed. A conceptual model of the organization of the educational process using distance learning technologies at the agricultural research university will be developed. On the basis of research, it is planned to publish an article in a peer-reviewed scientific journal in the direction of research; it is planned to publish in foreign peer-reviewed scientific journals at least 1 (one) article or review in a peer-reviewed scientific publication indexed in the Social Science Citation Index, Arts and Humanities Citation Index and (or) Russian Science Citation Index of the Web of Science database and (or) having percentile by CiteScore in the Scopus database not less than 35 (thirty five).

- for 2023: Scientific and methodological recommendations on the development of educational programs using distance learning technologies will be presented. A package of educational and organizational documents (samples, projects) has been prepared for the formation of professional competencies of students in agricultural universities studying on distance learning technologies. 2 (two) articles and (or) reviews will be published in peer-reviewed foreign and (or) domestic publications recommended by the Control Committee in the Field of Education and Science. A monograph on the results of the project will be published.

The composition of the research team:

Academic Supervisor – Abdyrov A.M., Doctor of Pedagogical Sciences, Candidate of Technical Sciences, Professor, Academician of APSC, H-index-1, profile (<https://orcid.org/0000-0002-6852-0235>).

Tashkenbayeva Z.M. - PhD, position in the project - academic co-supervisor of project, H-index-1, profile (<https://orcid.org/0000-0003-3319-3825>).

Muratova G.K. - Candidate of Physical and Mathematical Sciences, position in the project - the main researcher, profile (<https://Orcid.org/0000-0001-7131-577X>).

Koxegen A.E. - position in the project - Researcher, profile (<https://orcid.org/0000-0002-8994-4096>).

Smailova L.K. - master, position in the project - Researcher profile (<https://orcid.org/0000-0003-3355-7502>).

Tazhibay L.K. - master, position in the project – Researcher, profile (<https://orcid.org/0000-0001-6788-980X>).

Aidarbekov A.U. - master, position in the project – Researcher, profile (<https://orcid.org/0000-0001-7197-1638>).

List of publications and patents published under this project: (with links to them):

Information for potential users: The results of this project will influence the effective training of specialists in distance learning technologies at agricultural universities. The results of the project will allow universities to develop an effective system for organizing the educational process using distance learning technologies.

Additional information: Analytical scientific reports and articles, study guides, instructions and guidelines and practical organizations of distance technology can be used by teachers, undergraduates and doctoral students for their own research. The expected results of the Project correspond to the priorities of the Republic of Kazakhstan on the modernization of education in the republic.