



Factors of Using the Pedagogical Innovative Education Cluster in the Conditions of Modernized Education

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Annotation: The article discusses the advantages of using a pedagogical innovative education cluster in a modernized educational environment and the importance of using interactive pedagogical technologies in achieving educational effectiveness.

Key words; modernized education, innovative education cluster, educational effectiveness, interactive pedagogical technologies, continuing education system, future planning, professional skills of staff

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In the rapidly changing stages of modernization, education can achieve its results only if it is able to connect its roots with science and industry, social life, in short, with life, and integrate fully with internal and related networks. A state that is able to ensure a deep, comprehensive connection between science, education and the economy and apply it to all spheres of society will prosper. In this regard, the deep and wide-ranging reforms being carried out in the system of continuing education in our country testify to this.

Radical improvement of the education system, identification of target areas for the training of competitive specialists with higher education, in particular, the continuous improvement of professional skills and knowledge of teachers are among the most pressing issues. Since the center of the education system is human capital, its development, proper distribution, effective use and targeted orientation, the organization of preschool, general secondary and higher education in a holistic way with all stakeholders, all subjects of the educational process in accordance with today's requirements and achieving full continuity of education should be one of the important tasks before us.

Second, with the development of science and technology, the boundaries of human activity are expanding exponentially, with the introduction of new technologies that have great potential for teaching in the classroom. Now the primary processes of "learning" do not fit into the pattern of traditional methods and teaching aids, and do not correspond to the individual abilities of the teacher. There are new technical, informational, polygraphists, audiovisual tools that require new

methodologies and become an integral part of the educational process and introduce into it certain features that have made the new pedagogical technology (PT) a reality.

Technology is a pedagogical activity that incorporates the laws of teaching, educating and developing the individual and ensures the end result.

The concept of "technology" has a regulatory effect and encourages free creativity:

- To find the basis for effective educational activities;
- Use of scientific and experimental achievements that guarantee the required results;
- make adjustments during training based on the design method;
- High level of informatization of the educational process, information processing, transmission;
- Mastering the methods of effective use of technical means, etc.

We would also like to acknowledge that the combination of scientific-theoretical, experimental and advanced methodological potentials, the harmonization of the capabilities of the executor and the organizers on the basis of mutual cooperation are yielding positive results in order to achieve efficiency.

In this regard, the establishment of the research direction "Innovative cluster of pedagogical education: need, necessity, result", initiated by the rector of Chirchik State Pedagogical Institute, Honored Scientist of the Republic, Doctor of Chemical Sciences, Professor Gafurjon Isroilovich Muhamedov, is yielding its first positive results.

The study and analysis of shortcomings in the system of continuing education in Tashkent region showed that the coordination of pedagogical education, future planning, weak communication and integration between the stages of education, the fragmentation of the activities of educational institutions have led to unmet needs in the region.

Therefore, the institute has identified a new system for the creation of an innovative cluster of pedagogical education in Tashkent region as its priority strategic direction and has carried out certain work on the basis of this system.

This system provides for the introduction into the educational process of a cluster method, which is considered effective in light industry, a number of sectors of agriculture and manufacturing sectors of the economy. Indeed, there is a chain of production, processing and conversion of raw materials into finished products and their sale in the manufacturing sector, and this sequence is also present in the system of pedagogical education in the form of human capital. This shows that it is theoretically possible to introduce a cluster model that is effective in production into the education system.

Given the high social significance of pedagogical education in the sustainable development of society, modern requirements, problems in the system and ensuring the connection between science and education in solving them require the transfer of continuous pedagogical education to a cluster development system.

The innovative cluster of pedagogical education is a whole of all types of education in the system of continuing education, research institutes and centers, bases of practice, scientific and scientific-methodical structures, and their shared tasks allow raising the system of pedagogical education to a qualitatively new level.

Therefore, the main goal of the cluster is to combine the educational-scientific-innovative potential of its cluster not only with a high level of civic and professional competence, but also to train modern educators with competitiveness, ability to innovate, design and implement new educational

programs and technologies consists of. The cluster system of pedagogical education development works in general areas related to education, creation of textbooks, increasing the scientific potential of teachers, integration of education and upbringing.

At the same time, these general areas are privatized in such areas as the management and organization of education, ensuring continuity and integration between types and areas of education, the use of teaching methods and tools.

The cluster system of pedagogical education development is expected to cover the following subjects:

- Preschool, general secondary, secondary special, higher and additional educational institutions, where students, masters and doctoral students undergo pedagogical practice, educational and research activities, innovative and design activities, which serve as an experimental base;
- Institutions of additional education of adults in accordance with the updates at different levels of education, institutions for retraining and advanced training of teachers of preschool, general secondary, secondary special vocational education of children and adolescents.

The main objectives of the pedagogical education cluster make:

- Ensuring effective succession in the field of pedagogy and promotion of the best students in the pedagogical profession;
- Carrying out professional training of teachers based on practice and intensively ensuring effective communication with stakeholders;
- creating an environment for training future education professionals on the basis of internships with innovative experience;
- shortening the period of professional development of young professionals;
- Ensuring the direct participation of students in today's rapid development processes;
- Creation of a new generation of pedagogical, educational, methodological, scientific literature, tools and didactic materials in pedagogical education;
- Increasing the scientific, scientific and pedagogical potential of pedagogical education;
- Integration of intellectual resources around current issues of pedagogical education development;
- search for and apply to education various forms and types of education, science and pedagogical practice;
- Improving the mechanisms to ensure the continuity of education and upbringing;
- Creation of opportunities for rapid interaction with preschool, secondary and higher education institutions and other applicants in the training of teachers;
- Scientific substantiation of the need for connection, connection and cooperation between the links of pedagogical education.

Based on these goals, the innovative cluster of pedagogical education performs the following tasks:

- Training of teachers with modern knowledge and skills for educational institutions in the region;
- Effective use of innovative pedagogical technologies in improving the quality of education;
- Consistent implementation of scientific activities in the field of pedagogy;

- Ensuring the continuity and continuity of the content of the main (textbook) and auxiliary (educational) dictionaries, encyclopedias, electronic resources, etc. in terms of stages of education;
- Organization of periodic training courses in cooperation with the regional Department of Public Education in order to fill the gaps in the level of knowledge of teachers of educational institutions in the region;
- Organization of scientific-practical seminars in cooperation with the regional Department of Public Education in order to address the problems associated with the teaching of subjects in secondary schools;
- Strengthening scientific cooperation with research institutes, research centers and basic higher education institutions in order to increase the scientific potential of professors and teachers of the institute;
- Involvement of teachers with the ability to conduct research in secondary schools in research work;
- Carrying out internships in leading foreign higher education institutions in order to master the best foreign experience in the field of pedagogy.

Currently, the innovative cluster of pedagogical education has been identified as the main research area of the institute, and currently more than fifty professors and teachers are conducting research in this area. In this way, the staff of the institute will contribute to the implementation of priorities identified in the transition from the "Strategy of Action" to the "Development Strategy". The cluster system unites the entities, each of which operates separately, around a common goal, and at the same time, each entity operates on the basis of a common interest based on a common goal. The subjects of the cluster system support and control each other, each of which creates a spiritual and intellectual space of a separate cluster, expanding its social influence and importance. Also, the innovative cluster of pedagogical education is deeply based on the principles of relevance, membership, consistency, succession, modernity, focus, interest. Stabilizes the friendly environment between educational institutions, eliminates indifference in the educational process and increases the responsibility of the participants of the cluster system. Preschool education - general secondary schools - secondary special and vocational education - strengthens the collaboration between the higher education levels.

The Innovative Cluster of Pedagogical Education, which is the direction of scientific and practical research of our institute, will further expand the opportunities to achieve educational efficiency by increasing the supply of competitive specialists trained for the regional institutions of continuing education in Tashkent region.

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