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# The Use Of Innovative Technologies In Organizing The Professional Training Of Teachers In The Field Of Technological Education

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**Annotation.** The article provides for the improvement of students' professional training, analyzes the stages of modern lessons, and methods of using innovative technologies in the lesson process.

**Keywords:** cluster approach, professional training, electronic platform, scientific research, scientific development, innovative technology.

The introduction of modern innovative methods in the organization of professional training for students is one of the important conditions for the development of the higher education system of the Republic of Uzbekistan until 2030 and its transformation into one of the leading countries in the world in terms of industrial and technological sectors of the economy by 2030. The development of society, the development of production, in a certain sense, depends on the content and level of education provided to the younger generation, the direction, essence, and results of education in educational institutions operating in this field. Indeed, the development of the education system in terms of content and essence, the provision of moral and cultural education to students, the introduction of advanced scientific, technical, and technological advancements into the educational process, the achievement of high results with minimal physical effort and time, the formation and enrichment of spiritual and moral qualities in a person, and the formation of a spiritually healthy lifestyle in society. Development occurs in the spheres of society in which a spiritual environment and a healthy lifestyle are achieved. In the context of education globalization, in the process of reforms aimed at improving continuous education and upbringing, practical efforts are being

made to organize the educational process in these educational institutions

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# PEDAGOGICAL CLUSTER



JOURNAL OF PEDAGOGICAL DEVELOPMENTS

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based on a new approach, enhance their effectiveness, and develop the professional training of future teachers.

- Development of theoretical foundations for improving the professional training of future technology teachers in higher education institutions based on a cluster approach;
- professional training of future technology teachers and its improvement;
- creation of methodological foundations for organizing the educational process based on a cluster approach;
- development of a methodology for using a cluster approach in developing the professional competencies of future technology teachers.
- "And for that:
- availability of a database on the latest achievements of science and technology and their practical significance, as well as the possibility of its regular updating;
- possessing a database of innovative competencies corresponding to the professional activities of technology teachers;
- to have a database of information about communication with technical means (parts, devices, mechanisms, connections, machines, etc.), belonging to various professions, and to be able to use them as educational information in carrying out professional activities (using knowledge, skills and abilities in practical activities);
- familiarization with the scientific foundations of innovative production;
- to have practical skills (measurement, calculation, processing and installation) based on technical objects and technological processes;
- it is necessary to have the knowledge and skills necessary for many professions related to various parts and their parts, assemblies, connections, technical devices, mechanisms and machines.

Acquiring such knowledge and skills in children leads to the improvement of technological functions in future specialists and creates opportunities for applying acquired knowledge and skills to other types of activities.

It has been determined that the solution of the following important issues in the professional training of future technology teachers in higher education institutions is an urgent task:

1) The use of innovative technologies in the process of professional training of future technology teachers, the determination of the level of formation and development of students' abilities to apply practical skills in their future professional activities;

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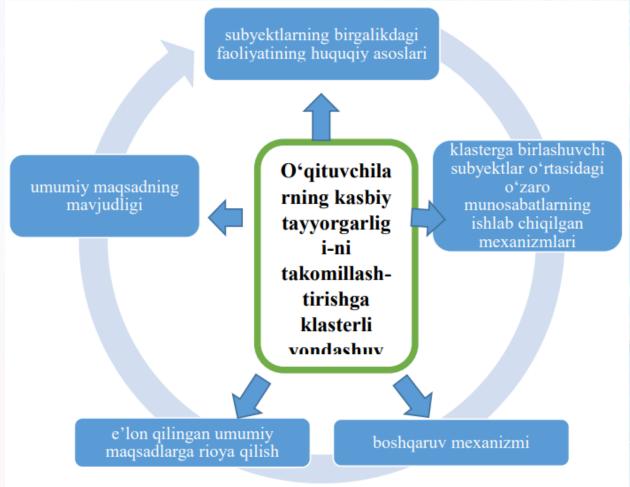
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- 2) Scientific substantiation of the place, role, and significance of future teachers in becoming mature specialists who meet modern requirements based on a cluster approach;
- 3) The organization, conduct, and implementation of experimental work that determines the level of development of sufficient skills and abilities in the creative, technical, technological, and pedagogical abilities of future technology teachers based on a cluster approach;



Summarizing the above, we present several key components for implementing the cluster approach:

- common goal;
- legal basis of joint activities of subjects;
- development of mechanisms of interaction between subjects;
- mechanisms for managing implementation in the practice of the cluster approach;

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- technologies for implementing a cluster approach that aligns with common goals.

Changes in the global market, in the field of advanced production, in the field of economics, as well as in the social sphere, are the result of the development and very "aggressive" spread of new technologies, practically in all spheres of human life. At the same time, it can be confidently stated that the solution of some problems related to personnel provision, including the country's economy, is related to the subject area of "Technology." Such large-scale transformations in the economy require reflection in the mandatory subject area of "Technology," in which the learner's competencies are activated, allowing them to solve applied tasks related to the transformation of energy, information and structural materials, as well as the design, design and manufacture of prototypes and others with a certain share of creativity.

Given global experience in general education, it can be confidently said that the subject area of "Technology" is the third vector alongside humanitarian and natural science, while it allows for the practical application of basic knowledge of sciences in the chains of technologies for digital design and construction and the use of best-in-class production technologies in the production of prototypes of products, taking into account creative reinterpretation, while building a transition and continuity at all levels of education, as well as in professional activities.

Factors influencing changes in the subject area of "Technology" The transformation of the subject area of "Technology" in the general education system was significantly influenced by the following changes in the regulatory framework at the moment:

1. Reduce the number of hours for studying the subject "Technology" in school: at the levels of primary general education, basic general education, secondary general education. Since 2004, the federal basic curriculum of the federal component of the state educational standard in the study of the subject "Technology" at the primary school level has been allocated 1 hour a week for first and second graders and 2 hours a week for third and fourth graders instead of the usual 2 hours a week in the 1993 federal basic curriculum. Since 2011, when implementing the Federal State Educational Standard for Primary General Education, each educational organization has independently determined the

PCJPD: Volume 2 Issue 10, October 2024, online: ISSN 2956-896X



# PEDAGOGICAL CLUSTER



JOURNAL OF PEDAGOGICAL DEVELOPMENTS

Website: https://euroasianjournals.org/index.php/pc/index

number of hours per week for studying the subject "Technology" and most often from grades 1 to 4, allocating 1 hour per week.

At the level of secondary general education in grades 10-11, according to the federal component of the state educational standard, the subject "Technology" is excluded from the invariant part of the basic curriculum. In the Federal State Educational Standard of Secondary General Education, the subject "Technology" is not mandatory when organizing specialized learning. Therefore, there is a trend towards a decrease in the number of hours spent studying technology, which cannot but affect the quality of technological training.

2. The content of the subject "Technology" has undergone the following changes since 2004. In the 3rd and 4th grades, the module "Informatics and Information and Communication Technologies (ICT) " was added to the subject "Technology (Labor) " aimed at ensuring universal computer literacy. In grades 5-8, drawing is studied as a separate module instead of the previously studied subject "Drawing," as students' engineering skills and technological literacy are formed based on graphic literacy. In the requirements of the FGOST LLC, determining the number of hours for both the subject itself and the modules of the "Technology" subject belongs to the responsibility of the educational organization.

The actual problem is that in many schools, the administration does not take into account the very wide content of some sections, both mandatory and variable components of the curriculum based on modern technological training, including taking into account the specifics of the region's economic and production components.

- 3. The material-technical and educational-methodological support of the subject "Technology" includes the availability of special equipment, textbooks and teaching aids. One of the acute problems of technological education remains the provision of access to modern equipment to students in all schools of the country, as technology workshops have been closed in a number of regions. Textbooks and teaching aids have not changed the content of the subject "Technology."
- 4. In the pedagogical universities responsible for the training of specialists in the technological direction, the number of students future technology teachers decreases, the status of the technology teacher itself decreases. The subject "Technology" is one of the few, it can be said that it is the only one that has been studied for many years and has been divided into subgroups according to the

PCJPD: Volume 2 Issue 10, October 2024, online: ISSN 2956-896X



# PEDAGOGICAL CLUSTER



JOURNAL OF PEDAGOGICAL DEVELOPMENTS

Website: https://euroasianjournals.org/index.php/pc/index

principle: boys and girls. Changes in technological education, embedded in the FGOST of general education, require a technology teacher as a "universal" teacher who possesses educational technologies for teaching boys and girls together in "indivisible classes." Therefore, the main problems of technological education of schoolchildren today are: in most schools of the region and the country as a whole, the number of hours for mastering this subject is constantly decreasing, workshops, inter-school educational complexes are closed or equipment in existing workshops is outdated, textbooks and teaching aids do not reflect the variability of modules and all cross-content lines of the subject "Technology" with regional specificity accents.

It is no coincidence that in recent years, the problem of technological education has been given attention at all levels of education and government [3-5]. In the context of implementing the requirements of the Federal State Educational Standard of Basic General Education in the area of updating the content and results of the subject "Technology" since 2015, the issue of training students future technology teachers and additional professional education (training courses, retraining) of technology teachers is extremely relevant [6-8]. The subject results of technology in the requirements require "students' awareness of the role of technology and technology in the progressive development of society; formation of a holistic understanding of the technological sphere, the essence of technological culture and labor culture; clarification of the social and environmental consequences of the development of industrial and agricultural production, energy and transport technologies."

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PCJPD: Volume 2 Issue 10, October 2024, online: ISSN 2956-896X



# PEDAGOGICAL CLUSTER



JOURNAL OF PEDAGOGICAL DEVELOPMENTS

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