

## INNOVATIVE EDUCATIONAL TECHNOLOGIES IN DIGITAL EDUCATION

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### АННОТАЦИЯ

В данной статье рассмотрены современные инновационные технологии, применяемые в образовательном процессе. В целях дальнейшего развития системы высшего образования был проанализирован ряд литератур, затронут вопрос о мерах, направленных на повышение качества образования за счет применения инновационных образовательных технологий. Для широкого использования информационно-коммуникационных технологий творчески мыслящими педагогическими кадрами в условиях, вытекающих из сегодняшних условий проведения уроков, рекомендована структурная структура.

**Ключевые слова:** инновационные технологии, инновационный процесс, педагогика, образовательное учреждение, информационная среда, цифровые технологии.

### ABSTRACT

This article discusses modern innovative technologies used in the educational process. In order to further develop the higher education system, a number of literature was analyzed, the question of measures aimed at improving the quality of education through the use of innovative educational technologies was raised. A structural structure is recommended for the widespread use of information and communication technologies by creatively thinking teaching staff in the conditions arising from today's conditions for conducting lessons.

**Keywords:** innovative technologies, innovation process, pedagogy, educational institution, information environment, digital technologies.

Innovative technologies in education allow to regulate education and direct it in a positive direction. People have always been afraid of unknown and new things because they have been treated negatively.

Any changes exist in the public mind, stereotypes affecting the usual way of life lead to painful events and prevent the renewal of all kinds of education.

The reason people do not want to accept the innovations in modern education is that they leave the needs of life for comfort, security and self-realization in an ABSTRACTstate. Innovative behavior does not mean adaptation, it means the

formation of one's own personality and self-development. The teacher should understand that innovative education serves as an important factor in educating a well-rounded person. The usual "Being the same" does not suit him, and for this it is important to constantly develop the intellectual level of the teacher. A teacher freed from "influence of external factors" and psychological barriers can become a full-fledged participant in innovative changes.

One of the tasks of modern higher education is to reveal the possibilities of all participants of the pedagogical process, to give them the opportunity to show their creative abilities. It is impossible to solve these problems without realizing the variability of educational processes, therefore, educational institutions of various innovative categories will appear, which require deep scientific and practical understanding. Innovation is inherent in any professional activity of a person, and therefore it naturally becomes its object of study, analysis and implementation.

Innovations do not appear by themselves, they are the result of scientific research, the experience of advanced pedagogical teams in a particular discipline. These processes do not arise by themselves, first of all, it needs to be organized and managed [2].

Thus, in the development of an educational institution, it is necessary to form and develop its innovative environment. In general, the innovation process is a complex activity of creation, development, use and distribution of innovations.

Currently, various pedagogical innovations are widely used in higher education. First of all, it depends on the tradition and status of the institution. Nevertheless, identifying characteristic innovative technologies in higher education is a somewhat difficult task [3,4,5].

In the Republic of Uzbekistan, several works are being carried out to develop education. In particular, the President's decree on approving the concept of higher education development until 2030 serves as a basis for the radical reform of the higher education system and the organization of educational activities based on innovative ideas [1].

It is appropriate to conduct classes in higher education institutions using innovative educational technologies as follows.

1. Information and communication technologies (ICT) in teaching science. The introduction of ICT into the content of the educational process implies the integration of various disciplines with informatics, which is the informatization of students' minds and their understanding (professionally) of the processes of informatization in modern society. New information technologies are emerging in the methodological system of higher education, and graduates of higher education are preparing to master new information technologies in their future professional activities.



**Figure 1. Organization of the higher education system in an innovative way**

2. Person-oriented technologies in the teaching of science put the child's personality at the center of the educational system in the entire higher education and provide comfortable, conflict-free and safe conditions for his development and realization of his natural possibilities. In this technology, the child's personality is not only a subject, but a priority subject, which is not a means of achieving some ABSTRACTgoal, but the goal of the educational system. This is reflected in students' mastering of individual educational programs in accordance with their capabilities and needs.

3. Providing information and analysis of the educational process and managing the quality of education of students in higher education. It allows us to objectively and objectively observe the development of each child in individual, class, parallel and general higher education. With some modifications, it can become an indispensable tool in the preparation of general supervision of the class, in studying the teaching situation of any subject of the curriculum, in studying the work system of an individual teacher.

4. Monitoring of intellectual development. Analyzing and diagnosing the quality of education for each student, creating graphs of test use and development dynamics.

5. Educational technologies are the leading mechanism of forming a modern student. This is an indispensable factor in modern education. It is implemented in the form of involving students in additional forms of personal development: participation in cultural events based on national traditions, theater, children's art centers, etc.

The effectiveness of their application depends on the traditions established in the educational institution, the ability of professors and teachers to perceive these innovations, and the material and technical base of the institution. Today, many teachers are using modern technology and innovative technologies to achieve educational efficiency.

Educational methods of teaching in higher education include active and interactive forms used in teaching. Active includes the active position of the student in relation to the teacher and those who learn with him.

Using them, textbooks, laptops, computers, that is, individual tools for learning, are used in classes.

Today, the term "digitization" is used to describe a transformation that goes beyond simply replacing an analog or physical resource with a digital one.

Every educational institution should focus on automating and deploying processes to make them more efficient by reallocating resources in real and virtual environments. In contrast, the focus on "digitization" should be to benefit more effectively from these processes through higher involvement, including educational services.

The main trend of today is related to the digital revolution, which should lead to fundamental changes in the labor market, the emergence of new powers, improved cooperation, increasing the responsibility of citizens, increasing their ability to make independent decisions, which, in turn, is the reason for the subsequent reorganization of the educational process based mainly on the use of artificial intelligence technologies.

All this leads to a revision of the role of the teacher himself, who no longer has to explain this or that material, but should help to find and understand the source of this material for the benefit of his specialist. For this reason, the teaching methods and the system of checking the quality of knowledge are waiting for a revolution.

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