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## AN EFFECTIVE SOLUTION IN SPECIAL TEACHING OF SCIENCES AND TECHNOLOGIES

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**Abstract:** *In essence, innovation is a dynamic system of introducing innovation into an attitude or process. Innovation as a system in itself represents the INTERNAL logic of a relationship or process, firstly, and secondly, the gradual development of the innovation being introduced over a period of time and the interaction it has with the environment. The goal that is set in an educational system is to get the most out of the capital and effort spent on supporting innovations in the system. The difference between innovation and any novelty is that they must have a changing mechanism that allows to manage and control.*

*The article highlights important aspects of the use of innovative technologies in teaching specialties.*

**Keywords:** *teaching ability, information technology, modernization, innovation, efficiency in education, professional ethics, internet.*

In the context of globalization, external relations and international economic relations are developing, making new demands on the spirituality and intellectual potential of each person. In turn, the Republic of Uzbekistan is a full participant and an integral part of international relations. Therefore, today in our country special attention is paid to the training of highly spiritual, highly educated specialists that meet international standards. The demand for such specialists in our country will continue to grow in the future too.

As you know, the development of human life leads to new discoveries. In the process of creating innovations, a person faces various obstacles, and new inventions appear as they are overcome. But it is clear from life experience that new discoveries are often made in the process of solving a problem. We are absolutely right when we say that the computer is one of the greatest inventions of the twentieth century. In accordance with the requirements of the times, computer technology has advanced significantly.

This is also confirmed by the trend of formation of the information society – a society whose members interact with each other and with the environment mainly through highly specialized communication channels, the purpose of which is data transmission.

The rapid development of Information Technology and globalization processes are setting new tasks in the areas of human factor, education, new pedagogical technology. In fact, more than a hundred years ago, the knowledge that a person received in the process of education was enough for his whole life. Because the exchange of Information, its update has been very slow. The development of Information Communication Technology has also led to the fact that educational programs become obsolete in the short term. Their creation should be in proportion to the newly formed

professions and specialties. In conclusion, it is worth noting that the role of each parent in the integration of the idea of national independence into the younger generation is also very important. It is necessary for parents to realize how important their children are in preschool education, their spiritual development, this period is an important stage of continuous education and upbringing. It will be desirable to achieve a consistent adaptation of the family to the system of educational institutions.

The processes of profound changes, consistent reform and liberalization of all aspects of political and socio-economic life, democratic renewal and modernization of our society are developing rapidly in our country. At the same time, the huge tasks set and consistently implemented on the way to building a strong civil society provide a solid foundation. One of the conditions for the country's economic growth and improving the quality of life of its citizens is the scientific development and practical implementation of innovations and innovative technologies in all spheres of human life. With regard to Uzbekistan, it can be noted that the country's future depends on the ability of the economy to develop scientific innovations and introduce industry innovations, including in the sports industry.

The skills and experience of professors and teachers are invaluable in the development of students of the Republic of Uzbekistan as mature professionals, in the implementation of the tasks facing higher education institutions. Their professionalism is also important in carrying out these tasks.

Innovation means trying to innovate the learning process, to adapt the learning process to the needs, desires and wishes of students, to teach students to read independently, not to give their knowledge in a ready way, but to form students' learning skills and abilities. In the implementation of such tasks, along with knowledge, the rational use of modern teaching methods, the formation of creative thinking in students, awareness of information and communication technologies, mastering foreign languages, extensive use of the Internet are the requirements of the times.

Innovation - is theoretically grounded, focused and practice - oriented innovation. The objectives of the innovative education are:

- Ensuring a high level of intellectual and personal and spiritual development of the student;
- Creation of conditions for mastering the skills they scientific way of thinking;
- Teaching methodology innovations in socio-economic and professional spheres.

Nowadays required to prepare a new professional quality, society needs not just a competent worker, and the expert, capable to self-oriented creative approach to business, with high culture of thinking, multilateral development people.

Many teachers of special subjects now ask, what should be a lesson for modern students with the knowledge of the maximum of what they are given.

We need to teach students how to learn for life, and for that the teacher must be capable of continuous updating of techniques to work with the new generation, to fit in a constantly changing environment, encourage students in their creative approach to the

subject, using a variety of non-traditional forms and methods of teaching , innovative technologies.

Particular emphasis is placed on student-oriented technologies - cooperative learning, project-based learning, technology individualization and differentiation, multilevel training. Individualization technology is widely used in conducting training courses with course design, graduation design. Students' progress in the protection course or research projects show performance. Collective learning technology is used during the lessons in the form of workshops, talks, discussions, dialogues as a result of which is the solution of the problem situation to a student, for example, on the railways.

All of the above leads to the conclusion that the major features innovative learning can be considered:

- Intensive development of the individual student and teacher;
- Democratization of their joint activity and communication;
- Humanization of the educational process;
- Focus on creative teaching and active learning, student initiative in forming themselves as future professionals;
- Modernization of the means, methods, technologies and facilities of learning, contributing to the formation of innovative thinking of the future professional.

Innovative activity is the mental, intellectual, physical activity of the teacher requires the acquisition of theoretical knowledge, practical skills and abilities on the basis of focusing their efforts on a specific goal, supplementing practical activities with theoretical knowledge, knowledge, design, development of communicative speech and organizational skills. The law of periodic repetition and repetition of pedagogical innovations represents the renewal of innovations in new, more favorable conditions.

Local innovation serves to describe the practical significance of the innovation being introduced for a particular object. Conditional novelty, on the other hand, serves to shed light on a set of specific elements that enable a complex, progressive update to take place in an attitude, object, or process.

There are unique approaches to the organization of innovation processes in higher education institutions. They are:

1. Individual activity approach (in which teachers, based on their individual capabilities, abilities, experience, achieve a certain consistency in the application of pedagogical innovations in practice).

2. Multi-subject (dialogic) approach (this approach involves the introduction of innovations in the pedagogical process through the interaction of colleagues, in particular, teachers with many years of experience, professionalism and experience, their use of recommendations and guidelines for effective, targeted and continuous use of educational innovations) .

3. Humanistic approach (this approach serves to highlight the expediency of taking into account the level of opportunities, desires, interests, knowledge, skills and abilities of students in the application of innovations in the pedagogical process).

4. Individual-creative approach (according to him, every educator organizes the process of education and upbringing on the basis of creative developments, based on the studied topic, the essence of the educational material, as well as their own capabilities, potential, skills, work experience).

In essence, innovative activity is the creation of a new technological process or a new improved product based on scientific research, development, experimental work, the use of scientific and technical achievements.

### CONCLUSION

In conclusion we can say applying innovation technologies are the main factor of the development of the country. We think that every citizen must be initiative and active in accelerating the process of applying innovation technologies.

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