

## PECULIARITIES OF INNOVATIVE ACTIVITY IN THE EDUCATION SYSTEM OF UZBEKISTAN

<https://doi.org/10.5281/zenodo.10522539>

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### **Abstract**

*this article is focused on the meaning and content of innovation and innovative activity and the descriptions given to them by Uzbek scientists and scientists from foreign countries. Besides that the article comprises different opinions and approaches on the descriptions, attitudes articles given to "Innovation" and "Innovative activity" in the framework of the laws on "Innovative activity", "Education" and "Science and scientific activity".*

### **Keywords**

*innovation, innovative activity, innovative processes, economy of knowledge, digital economy, professional innovative activity.*

### **Introduction**

From the economic point of view, the study of international experience in the organization and support of innovative activities in the context of modern globalization, digital economy and the construction of a new Uzbekistan serves not only at the enterprise level but also in higher education.

From a pedagogical point of view, the innovative processes taking place in the modern education system are primarily related to the active use of digital technologies in all areas of human activity and are primarily aimed at improving the quality and efficiency of education. In this regard, the professional innovative activity of students has a radically different meaning. The essence and content of innovative activity is that any innovation in the field of education for students occurs when it is carried out by the teacher. That is, the transformation of students from object to subject in the educational process depends primarily on the professional competence of the teacher.

The Address of the President of the Republic of Uzbekistan to the Oliy Majlis recognizes that our country has entered the stage of innovative development in

order to achieve modern progress. "Innovation is the future. We need to start building our great future ... based on innovative ideas. It is no coincidence that we are moving towards innovative development and the digital economy. Because who will win in today's fast-paced world? A state based on new ideas, new ideas and innovations will win." [Mirziyoev Sh.M., 2018]

The adoption of the Law of the Republic of Uzbekistan "On Innovative Activity" (July 24, 2020) was an important step in building a new Uzbekistan in order to create an appropriate legal framework provided for in the State Program "Year of Science, Enlightenment and Digital Economy". This law is extremely important in strengthening the reliable legal mechanisms for the creation and implementation of new ideas, new discoveries, scientific developments that guarantee and accelerate our development

#### Materials and methods

In this work, the legal and regulatory framework for preparing students for innovative activities, priorities for improving and developing the mechanism of preparing students for professional innovative activities, ensuring the quality and effectiveness of innovative and modern information technologies in preparing for professional innovative activities, organizing economic education through non-traditional methods. A systematic approach and analytical methods were used throughout the study. At different stages of its development, society presented new standards and requirements for the workforce. This necessitated the development of the education system. Education as a process and result can be effective and of high quality if there are clearly formulated concretized educational ideas, and they are accepted personally significant by all participants in the educational process.

The future of our country is determined not by raw materials and natural resources, but by intellectual potential, the level of development of science and high technologies. For this, the education of Uzbekistan must go into a special innovative development mode, in which it is possible to preserve the best traditions of our public education and at the same time take into account the global trends in the development of educational systems, correlate our education with world norms and standards. One of the means of such development is innovative technologies, that is, these are fundamentally new ways, methods of interaction between teachers and students, ensuring the effective achievement of the results of pedagogical activity. Scientific innovation that propels progress forward encompasses all areas of human knowledge. One of the varieties of social innovation is pedagogical innovation. Pedagogical innovation is an innovation in the field of pedagogy, a purposeful progressive change that introduces stable elements (innovations) into


the educational environment that improve the characteristics of both its individual components and the educational system itself. Pedagogical innovations can exist both at the expense of the educational system's own resources (intensive path of development) and by attracting additional capacities (investments) - new funds, equipment, technologies, capital investments, etc. (extensive development path).

The main directions and objects of innovative transformations in pedagogy are:

- designing new models of the educational process;
- development of concepts of strategies for the development of education and educational institutions;
- updating the content of education, changing and developing new technologies for teaching and upbringing;
- improving the training of teaching staff;
- ensuring the psychological, environmental safety of students, the development of health-saving learning technologies;
- ensuring the success of training and education, monitoring the educational process and development of students; - development of new generation textbooks and teaching aids.

**Results**

The rapid development of our time requires the training of specialists not only with high intellectual potential, but also on the basis of the ideology of national awakening and universal values, love for the motherland, devotion to the ideals of independence.

<b>Improving the quality of the educational process to world standards, the duction of completely new methods of education, modern pedagogical and mation technologies</b>			
			
<b>Objective factors</b>	<b>PREPARATION OF COMPETITIVE CARDS</b>		<b>Subjective factors</b>
	Turning learning into a student's need	Making teaching a daily necessity e professor	
	The state of the educational ess	His own science deep knowledge	

	Information and communication		Modern pedagogical skills	
	The state of the educational process		An innovative approach to the educational process (add something new to each lesson, or give something new)	
	Image of higher education institution			

**Figure 1. Innovative approach to the organization of the education system<sup>62</sup>**

Although former US President D. Eisenhower said that "not educating young people at a high intellectual level and not educating them morally is a threat to the country", the issue of moral education in developed western countries is pushed to the background. The result of this is evident in the negative conditions in the upbringing of western youth.

The module of innovative approach to the educational process proposed by us also covers the integration of education and upbringing, students and teachers in the educational process.

It should be noted that in order to ensure a stronger link between science and industry, as well as research organizations and the real economy, Innovative ideas and projects play an important role in establishing close partnerships between enterprises.

In our opinion, innovative education should reflect the following set of ideas:

- by both entities on the basis of incentives and dispositions
- conscious analysis of professional activity;
- critical attitude to norms and standards;
- formation and reflection of the system of meanings;
- openness to professional culture, environment and news;
- creative approach to any activity, initiative;
- Improving the elements of educational content.

#### Discussion

At the same time, it should be noted that there are a number of shortcomings in innovation. First, the interaction between the ministries and agencies responsible for the development of scientific and innovative activities is not adequate, and the activities of research institutions and laboratories are not properly coordinated;

<sup>62</sup> recommended by the authors

second, the low level of commercialization of scientific results; third, the lack of highly qualified specialists capable of actively promoting and implementing technology transfer in the field of innovation management; fourth, the state funding of scientific and innovative activities is not efficient and transparent, and there are no mechanisms to encourage the attraction of extra-budgetary and private funds.

The technology of the teaching process is the process of transforming and introducing specific innovative methods, tools, forms and elements into a real teaching system.

The process of modernization of the education system and the introduction of computers, audiovisual techniques, the use of innovative methods in test control, the use of videos in the acquisition and formation of new knowledge, the use of new computer programs in experiments - all this is the essence of modernization.

The purpose of the use of information technology in education is a factor that shapes the system. It is this factor that influences the definition of the content, form and methods of achieving the desired result, and clearly defines its program and direction. Therefore, the training technology is selected based on the purpose.

The selection and production of teaching technology is very important for professional higher education, and it is advisable to use various innovative technologies in the teaching process based on the learning objectives. The following didactic principles should be followed to shape the professional qualities of future professionals.

At the present time, the leader must show initiative and efficiency in management, be responsive, be aware of changes in the situation in a timely manner, be able to make a significant impact with the help of resources, make the right decision in any case. To do this, the leader must receive reliable and meaningful information.

Due to the diversity of information in the education system, it is very difficult to select the necessary and sufficient information to develop these management decisions. Dividing all the information into types and groups according to their specific characteristics, i.e., classification or classification, helps to some extent to overcome or alleviate this difficulty.

The main purpose of information support in achieving management of education innovation management is to work with, analyze and summarize existing data, which serves as a source for making informed decisions. The size of the information flows clearly demonstrates the importance of using the most modern information technologies in the management of educational management,



which in many cases overlap in the collection, storage, processing and use of various data.

The task of education today is to teach students to work independently in the growing information educational environment, to use information flow wisely. To do this, it is necessary to create opportunities and conditions for them to work independently on an ongoing basis. Until now, traditional education has taught students or teachers to acquire only ready-made knowledge. Such an approach would extinguish the creative research initiative of independent thinking in the student or learners. At present, the main tasks in the design of targeted group teaching using one of the interactive methods in the process of innovative education are:

- Assignment of educational assignments;
- guidance;
- feedback (to determine the extent to which the group understands the task);
- control (observation, direction, narration);
- preparation for the presentation;
- conclusion.

In addition, one of the foundations of the proposed quality project is the use of advanced pedagogical methods and innovative technologies (case study, educational project, collaborative learning, "practical game", interactive teaching methods, etc.), information and communication technologies, e-learning resources and multimedia presentations. should be.

In order to solve the problems facing the management of innovative management of education in the current educational process, it is necessary to expand the number of independent and free-thinking professors who are able to make the necessary decisions to assimilate new information.

In the effective use of information technology in education, first of all, as a result of the orientation and development of young people to intellectual activity, the following is achieved:

In the effective use of information technology in education, first of all, as a result of the orientation and development of young people to intellectual activity, the following is achieved:

- Achieving knowledge of the level of their potential and abilities of students;
- Designing individual programs of work with gifted students;
- learning, as well as being active in certain activities, moving situations;
- free expression of independent opinion, personal views, their explanation with evidence;

- be able to make independent decisions and assess the consequences, if necessary;

- Ability to work in groups and individually with modern technologies and information sources;

- be able to demonstrate the acquired knowledge and skills.

Using information sources, collaborative learning is a technology that is accessible to both the educator and the learner, influencing the quality of education with its effectiveness and facilitating the management of the education system.

The main socio-economic foundations for the development of education in the development of modern society are: the complexity of the socio-professional infrastructure of society, the deepening of professional activity and informatization of all areas.

This leads to the following trends: early specialization of teaching, globalization, individualization of the information environment, democratization of information interaction, strengthening control over the effectiveness of information processes, abstraction and identification of elements of the information environment, improving the professional activity of teachers.

In order to overcome these problems, the legal framework for the development and promotion of innovative activities in the Republic has been created. Law of the Republic of Uzbekistan "On Innovative Activity", Strategy of innovative development of the Republic of Uzbekistan for 2019-2021, Science and Technology of the Republic of Uzbekistan Law on Scientific Activity " [Law of the Republic of Uzbekistan "On science and scientific activity", 2019].

The Law "On Innovative Activity" defines the concepts of innovation, innovative infrastructure, innovative project, innovative activity, the state order for the creation of innovations, technology transfer, new development. In particular, it is defined as "innovation - a new development that is introduced into civil circulation or used for personal needs, the application of which in practice provides great socio-economic benefits." supply activities "[Law of the Republic of Uzbekistan "On Innovative Activity", 2020].

It should be noted that as a result of the rapid development of innovation processes in the Republic, there is a need for innovative infrastructure. Innovative infrastructure - material, technical, financial, organizational and methodological, informational, consulting and other aspects of innovative activity is a set of enterprises, organizations, institutions, their associations in any form of ownership. At the same time, the Republic has formed an innovative infrastructure in the field

of education, as in all areas. The formation of this infrastructure can be seen directly in the changes in the types of education.

Article 8 of the Law "On Education" is devoted to "Preschool education and upbringing", which provides for the education and upbringing of children, their intellectual, spiritual, moral, ethical, aesthetic and physical development, as well as the preparation of children for general secondary education. is a type of focused education." This type of education also includes one year of compulsory preparation of children between the ages of six and seven for primary education. Article 9 of the law is devoted to "General secondary and secondary special education", which provides for primary education in grades 1-4, basic secondary education in grades 4-9 and 10-11 grades [Law of the Republic of Uzbekistan "On science and scientific activity", 2019].

Another change is professional training. Vocational education is reflected in Article 10 of the Law, which is divided into primary vocational education, secondary vocational education and secondary special vocational education. While primary vocational education is provided in vocational schools on the basis of 9th grade graduates on the basis of free full-time integrated programs for two years, in secondary vocational colleges general secondary, secondary special education on full-time, part-time and part-time forms of education up to two years as well as on the basis of primary vocational education.

Secondary special vocational education is provided on the basis of general secondary, secondary special, primary vocational and secondary vocational education on the basis of state order or fee-for-service, depending on the complexity of professions and specialties, full-time, part-time and part-time education.

Higher education provides training of highly qualified personnel in bachelor's and master's specialties (Article 11). At the same time, Article 15 of the Law states that the forms of education include: full-time education (full-time); education inseparable from production (correspondence, evening, distance); dual education; family education and independent study; teaching and educating adults; inclusive education; external education; training in the field of defense, security and law enforcement [Law of the Republic of Uzbekistan "On science and scientific activity", 2019].

Article 31 of the law stipulates that the activities of non-governmental educational organizations must be carried out on the basis of a license, and non-governmental educational organizations must provide educational services in



accordance with the requirements and conditions of the license. Another noteworthy aspect of the law on education is reflected in its Article 36.

Article 36 is entitled "Experimental and innovative activities in the field of education" and is entitled "Experimental and innovative activities in the field of education. It is aimed at modernizing education and developing new educational technologies and resources, testing them and introducing them into the educational process. This article is aimed at the organization of innovative activities in the education system. opportunities will be created for the gradual transition to more advanced forms of the process".

### Conclusions

An important condition for the rapid development of the Republic of Uzbekistan is the rapid introduction of modern innovative technologies in the economy, social and other spheres with the widespread use of scientific and technical achievements. In this regard, the Law of the Republic of Uzbekistan "On Science and Scientific Activity" was adopted, which regulates relations in the field of science and scientific activity. The law is important in that it focuses directly on the development of science on the basis of innovative activities for research entities. Chapter 19 "Priorities for the development of science and technology" states that "Priorities for the development of science and technology are the achievement of competitiveness and efficiency of the national economy, increasing labor productivity, creating new industries, living standards, quality of science and education." is designed to provide a scientific solution to the problems associated with the improvement of the quality of life " [Law of the Republic of Uzbekistan "On science and scientific activity", 2019]. This, in turn, allows for innovative activities.

Based on the above, it is advisable to do the following:

- Knowledge required to understand the content and essence of the concepts of "innovation" and "innovative activity" in society. Expanding the scope of arming with skills and competencies;
- further acceleration of work on publicizing the content and essence of the newly adopted Law "On Education";
- Emphasis on innovative activities in the development of all areas, with the establishment of a knowledge-based innovative economy as the basis for building a new Uzbekistan;
- Ensuring the rapid development of socio-economic relations between the subjects of innovation infrastructure, such as innovation technology park,

technology transfer center, innovation cluster, venture organization, innovation center;

- As a result of the systematic organization of the activities of innovation clusters, innovation activity in the Republic will be further developed, and as a result, the quality and efficiency of innovation activity will be ensured. New innovations emerge, people strive for innovation.

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