

**"THE ROLE OF EDUCATION IN FOSTERING INNOVATION:
CHALLENGES AND OPPORTUNITIES"**

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ANNOTATION: *This article analyzes the role of the education system in the process of stimulating innovation, its current problems and existing opportunities. The impact of education in the formation of an innovative society, its role in the introduction of advanced technologies and educational methods aimed at developing innovative thinking are widely covered. The research studies innovative educational approaches and the experience of their implementation in practice.*

Keywords: *innovative education, innovative thinking, education system, technological development, problems, opportunities, research activities.*

АННОТАЦИЯ: *В статье анализируется роль системы образования в процессе стимулирования инноваций, ее текущие проблемы и имеющиеся возможности. Широко освещается влияние образования на формирование инновационного общества, его роль во внедрении передовых технологий и образовательных методов, направленных на развитие инновационного мышления. В исследовании изучаются инновационные образовательные подходы и опыт их внедрения на практике.*

Ключевые слова: *инновационное образование, инновационное мышление, система образования, технологическое развитие, проблемы, возможности, научно-исследовательская деятельность.*

INTRODUCTION

Education is of strategic importance in the development of innovation in modern society. Innovations are a key factor in economic growth, and the education system plays a crucial role in their creation and implementation. Education is the basis



for technological progress by developing human capital and forming innovative thinking. However, in order for the role of the education system in stimulating innovation to be fully realized, it is necessary to overcome certain problems and effectively use existing opportunities.

This article analyzes the current problems of the education system aimed at developing innovative thinking, ways to solve them, and opportunities based on international experience.

LITERATURE REVIEW AND DISCUSSION

Education and innovation are closely related, and modern research confirms this connection. According to UNESCO (2020), countries with innovative economies have high quality education and extensive research activities. Research institutes and universities play an important role in the creation and commercialization of innovative products.

The experience of Finland and South Korea shows that countries that integrate innovative educational programs and practical training into the educational process have a higher level of technological progress. For example, in South Korea, special attention is paid to teaching STEM subjects and students are encouraged to participate in scientific and research activities.

However, it is observed that the potential of the education system in developing countries to develop innovative capacity is not being fully utilized. Shortcomings in infra¹structure, financing of scientific and research projects, and provision of advanced technologies are hindering this process.

DISCUSSION AND RESULTS

Innovative activity in education is characterized by the development and introduction of fundamentally new images of the content and teaching technologies, the presence of carriers who carry out this activity.

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1. ¹ UNESCO (2020). Innovation in Education: Global Trends and Policies.
 2. OECD (2019). Education and Innovation: A Comprehensive Study.



Innovative activities should be directed towards the goals of modernization of education, the general strategy of education, for which it is necessary to directly stimulate all participants in this process.

The importance of the widespread use of innovative activities in modern conditions of the development of society, culture and education is determined by a number of circumstances:

- changes in the socio-economic sphere of society have necessitated a complete renewal of the education system, changes in the methods and technologies of organizing the educational and upbringing process at various levels. In this case, innovative activity is a means of updating educational policy.

- the increasing importance of the humanitarian part of the educational content, increased attention to the social and educational content of education, in this regard, a change in the volume and composition of educational subjects; the introduction of new subjects, which leads to the search for new forms and technologies of education. In this situation, the tasks of improving the professional skills of educational participants and searching for new forms and methods of educational interaction are becoming urgent.

- changing the nature of teachers' attitude to the reality of mastering and applying pedagogical innovations. Previously, in conditions of strict regulation of the content of the educational process, the teacher was limited in the independent selection of new programs, textbooks, and also had limited access to new methods and techniques of pedagogical activity. Today, innovative activity in education is acquiring a selective, research-based character. Therefore, an important area of activity of various subjects of management and organization of educational institutions is the analysis and evaluation of pedagogical innovations introduced by teachers, the creation of the necessary conditions for their successful development and application.

- conditions of a market economy, in which educational institutions become real participants in relations, which puts them in a position to increase



competitiveness and the quality of services provided. Innovations help to make services exclusive and improve quality.

Thus, innovations in the modern educational process are an integral element of its content. Innovations act as a means of implementing a new educational policy and forming a new successful personality. Innovations in education must be followed by each participant, in this process the teacher plays a leading role, the extent to which he implements innovative processes in his personal and professional activities, aimed at educating and educating the future generation, determines the quality of modern education.

The following problems exist in the development of innovative education:

Lack of financial resources: The funds allocated to finance research projects are often insufficient.

Low human resource capacity: The lack of teachers with innovative thinking leads to poor organization of the educational process.

Outdated curricula: Traditional teaching methods are not effective enough in developing students' creative thinking skills.

However, the following options are available:

Use of digital technologies: The educational process can be improved with the help of online courses and virtual laboratories.

Expanding international cooperation: Sharing experience through participation in international programs in the field of scientific research.

Development of startup and incubation centers: Creating opportunities for students to implement their innovative ideas.

Research shows that interactive teaching methods and digital technologies can help develop students' creative thinking. In particular, practical exercises and project-based learning methods can help increase educational effectiveness.

Modern Uzbek education in the place happening giving innovative of processes to oneself typical features complete and right show for education in the system two kind of education institutions separation possible : traditional and developing . Traditional systems are characterized by stable activity aimed at



maintaining the once established order. Developing systems are characterized by a search mode. Innovative processes in the developing educational systems of Uzbekistan are being carried out in the following areas: the formation of new educational content, the development and introduction of new pedagogical technologies, the creation of new types of educational institutions. In addition, professors and teachers of a number of educational institutions of Uzbekistan are engaged in the practical implementation of innovations that have become the history of pedagogical thought. For example, alternative educational systems of the early 20th century M. Montessori, R. Steiner, etc. School development cannot be achieved in any other way than through the development of innovations, through the innovative process .

To effectively manage this process, it is necessary to understand it, and therefore know it. The latter involves the study of its structure or, as they say in science, its structure. There are different types of innovations, depending on the criterion by which they are divided. 1) by source of origin: external (outside the education system); internal (developed within the education system) .) by scope of use: single; diffuse. Based on the above, we can formulate the basic model of innovation design: the higher the level of innovation, the higher the requirements for scientifically based management of the innovation process.

In order to fully and accurately reflect the specifics of the innovative processes taking place in the modern Uzbek educational space, two types of educational institutions can be distinguished in the education system: traditional and developing. Traditional systems are characterized by stable activity aimed at maintaining the once established order. Developing systems are characterized by a search mode. In the developing Uzbek educational systems, innovative processes are being implemented in the following areas: the formation of new educational content, the development and introduction of new pedagogical technologies, the creation of new types of educational institutions.

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become the history of pedagogical thought. For example, alternative educational systems of the early 20th century M. Montessori, R. Steiner, etc. The development of the school cannot be achieved in any other way than through the development of innovations, through the innovation process. In order to effectively manage this process, it is necessary to understand it, and therefore know it. The latter includes the study of its structure, or, as they say in science, its structure.

CONCLUSION

in promoting innovation is invaluable. To develop innovative thinking, it is necessary to widely introduce modern technologies and practical training into the educational process. Integration of the education system with research activities and support for startup projects creates an important foundation for an innovative economy. High results can be achieved in the educational process by studying international experiences and implementing innovative approaches in practice.

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