



## ECONOMIC MECHANISMS FOR MODELING THE FORMATION OF THE MANAGEMENT OF PRESCHOOL EDUCATION

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### ABSTRACT

*As a of national independence, the state is fast becoming a state of theart policy based approach to completing a full-fledged government policy.*

*For years of independence of the national system of education and training has become one of the most pressing issues of state policy in the republic.*

**KEYWORDS:** *economic- mathematical, information-communication.*

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### DISCUSSION

Resolutions of the President of the Republic of Uzbekistan Sh.M.Mirziyoev dated December 29, 2016 on measures to further improve the system of preschool education in 2017-2021 on January 25, 2018 on radical improvement of the system of general secondary special and vocational education On innovation approval of the innovative development strategy in 2021

The pre-school education system is the primary, most basic link of the continuing education system. According to the scientific experiments of scientific scientists and experts, 70% of all information and data that a person receives during his lifetime is received by the age of 5 years.. According to the "Roadmap" of the Resolution of the Republic of Uzbekistan dated September 30, 2018 on measures to improve the management of preschool education in 2017-2021, which is a key link in the management of continuing education, the country's economic development prospects and priorities, modern information and innovation Given the introduction of technology, it is important to focus on specialized and related specialties, to train qualified teachers with practical skills and knowledge of at least two foreign languages

Improving the development of standardization of children's furniture production for the healthy physical development of children in preschool education. The main task is to create conditions for all-round intellectual, moral, aesthetic and physical development for the future generation.

On this basis, if more than half of the country's population lives in rural areas, the following roadmap will be implemented to maintain the health of the population, improve its culture, and further improve the quality of education.

The first is to strengthen the material and technical base of preschool education institutions located in rural areas.

Second, to strengthen prevention and advocacy to maintain and improve the health of the rural population.

Third - control over the construction, reconstruction and overhaul of the preschool on the basis of new modern projects.

Fourth, the formation of state funding for the construction of preschool education. Implementation of the fifth through the sponsorship of international financial institutions, organizational and donor countries, as well as legal entities and individuals for the equipment of preschool education institutions.

Improving curricula and programs of qualified and quality teaching for the training and retraining of teachers, taking into account the modern pedagogical and information technologies and methods in accordance with the educational experience of internationally developed countries.

Seventh - optimal placement of preschool education institutions in accordance with the socio-economic development of the region.

Eighth - to create groups for children in preschool institutions in accordance with the



geographical and ethnographic organization of the region.

Optimization of the capacity of the ninth-preschool educational institutions depending on the location of the population in the region in order to further improve the management.

Tenth - Development of educational methods and programs adapted to the application of modern pedagogical and information technologies to improve the management of the preschool education system.

Eleventh - the establishment of an innovative center of information and pedagogical technologies to improve the management of preschool education in the region.

Strengthening the material and technical base of existing preschool educational institutions under construction in the twelfth regions, including rural settlements, providing them with modern equipment, teaching aids, multimedia resources.

Thirteenth is the provision of high-quality preschool education and the introduction of alternative programs to radically improve the preparation of children for quality schooling.

Fourteenth - increase the number of children in preschool institutions in rural areas.

Improving the management of the preschool education system, strengthening the material and technical base, providing them with qualified teachers is the most important factor in the development of the generation.

In this regard, a lot of creative work has been done in our country in 2017-2018, and on the basis of each paragraph of the resolution, intensive and reliable projects are being implemented and practical results are being achieved. Research on early development of preschool youth is being conducted.

It is used to find the optimal solution to the problem through the use of innovative methods in determining the real conditions created for the general and additional demand for teachers and educators of special subjects working in preschool education. Thus, in order to develop a mathematical model for solving the problem of studying the demand for pedagogical specialists in improving the management of preschool education using the above methods, we introduce the following features. Number of preschools in the  $i$ -th region ( $i = 1, 2, \dots, n$ ) the number of experienced teachers working in preschool education institutions in the region.

*T* - planned year.

$T_i - T$  \*  $t$  - time gain

$A_{jt}$  - the number of teachers working in preschool education reduction of demand for pedagogical specialists in the planned years in pre-school educational institutions in the  $bi$ -region.  $Bit$  - training and retraining of  $i$ -pedagogues in the current year.

We develop a mathematical model of the problem based on the number of definitions above.

Form of calculation of the share of pedagogical specialists in the existing state and non-state preschool educational institutions in the region by the share of pedagogical specialists for every 1000 operating.

It will be as follows

$$b_i = (b_i \cdot 100) / a_i \quad (1)$$

Based on the long-term forecast plan (for 5-25 years) the share of the number of managers of higher education institutions training pedagogical staff for preschool education institutions for every 1,000 employees

$$M_i = \frac{\sum_{i=1}^n \sum_{j=1}^m (b_j + b_{ij})^{T-1000}}{\sum_{i=1}^n \sum_{j=1}^m a_{ij}} \quad (2)$$

According to the formula, the number of pedagogical specialists required is determined on the basis of a prospective forecast plan, based on the needs of preschool education institutions in the region for pedagogical specialists.

$$Qb_i = b_i + (b_i + b_{it}) \quad (3)$$

It is possible to determine the difference between the number of pedagogical specialists working in preschool education from the number of pedagogical specialists who should be prepared on the basis of a forward-looking forecast plan to determine the demand for experienced pedagogical specialists with modern pedagogical and information technologies to improve the management of preschool institutions.

$$D_i = L_i - b_i \quad (4)$$

In general, it is important to positively address the demand for pedagogical professionals with modern knowledge in the upbringing of a generation of intellectual, aesthetic and physically harmonious, which is our future.

It is a multi-stage problem and uses a system of mathematical models to determine its optimal solution using a single network model, that is, it is based on a certain mathematical doctrine in optimizing the forecast plan for the construction of preschool institutions.

The issue of training qualified pedagogical specialists is the most important process in improving the management of the preschool education system. Training, retraining and advanced training of pedagogical specialists play an important role in improving the management of the preschool education system.



The problem of the current system of determining the demand for pedagogical specialists, which in some cases does not take into account the needs of one-sided needs, does not give the expected result. Because the problem of determining the demand for pedagogical specialists is usually sufficiently complex, its positive solution is mainly aimed at determining the prospects of pedagogical innovation through socio-economic pedagogical factors.

There are several ways to study the demand for pedagogical professionals in improving the management of the preschool education system, the main of which are as follows. Knowing the level of provision of preschool education institutions with pedagogical specialists, it focuses on determining the dynamic and statistical coefficients of the number of knowledgeable and experienced specialists with modern pedagogical and information technologies in relation to the total number of teachers in educational institutions.

The extrapolation method, on the other hand, focuses on determining teachers' salaries by taking into account long-term calculations based on an innovation plan. Organization of additional annual services by public preschool educational institutions in the field of extracurricular activities after the end of weekends and working hours (child care, tutoring, etc.)

In order to improve the management of preschool education in the regions, to make a proposal to increase the number of admission receipts for pedagogical specialization in preschool education to train qualified specialists, to strengthen the material and technical base of 2,200 preschools in 2017-2021, to reconstruct 50 new 1,167 983 will focus on perfect impact, 6100 short-term groups are planned to prepare 5-6 year olds for pre-school education, which will improve the pre-school education system. attention is paid to preparation.

In accordance with the Decree of the President of the Republic of Uzbekistan "On measures to radically improve the management of preschool education" PF-5198 dated September 30, 2017 to further expand the public and private sectors to improve the management of preschool education Uzbekistan is aimed at educating an intellectually healthy generation by introducing new forms of preschool education.

List of used literature: In accordance with the Decree of the President of the Republic of Uzbekistan "On measures to radically improve the management of preschool education" PF-5198 dated September 30, 2017 to further expand the public and private sectors to improve the management of preschool education Uzbekistan is aimed at educating an intellectually healthy generation by introducing new forms of preschool education.

## LIST OF USED LITERATURE

1. Ganiyev E. *Optimal placement of the network of secondary schools in the region. Pedagogical sciences, №3, 2012*
2. Ganiyev E., Mukhammedov I. *Mathematical modeling, Accommodation and perfection of regional and Professional Educational Establishment on the Bases of Multistage System.*
3. Ganiyev E. *Candidate of economic sciences, Mathematical modeling of the Regional System of Professional Education of the Republic of Uzbekistan. Ausgabe 3 2018.*
4. Ganiyev E. *Prosects of perfection of managerial process by vocational training system miedzynarodoveczasopism naukove colloquium-journal issn 2520-6990 №3 (27), 2019*
5. Ganiyev E. *Mathematical modeling of the regional system of professional education of the republic of Uzbekistan. International correspondence scientific and "Europe education and technology" February 25-26, 2019 London, United Kingdom (international conference printed in the united states of America) 2019.*