

**THEORETICAL-METHODOLOGICAL APPROACHES TO THE  
FORMATION OF AN INDIVIDUAL EDUCATIONAL TRAJECTORY IN  
INCLUSIVE EDUCATION**

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**Annotation**

This article analyzes the theoretical and methodological foundations of the formation of individual educational trajectory of students in the context of inclusive education. The content, principles of inclusive education and the importance of an individual approach are revealed. Issues of designing educational trajectory based on differential and individual teaching methods, modern pedagogical technologies and innovative approaches are also covered. The result of the study is based on the need for an integrated approach to the formation of an individual educational trajectory.

**Keywords**

inclusive education, individual Education trajectory, differential approach, pedagogical technologies, methodology, students with special needs, personality-oriented education

**Introduction:** As a result of radical reforms in the world education system in recent years, the concept of inclusive education has become one of the priorities. Inclusive education is intended not only to expand access to education, but also to organize quality education, taking into account the personal development needs of each student. In this process, the principle of “education for all” is put forward as the main idea, in which social equality, a non-discriminatory environment and an individual approach are important.

The development of inclusive education in the Republic of Uzbekistan has also become an important direction of state policy, a number of regulatory legal acts are being adopted in this regard. In particular, the issues of educating children with special needs in secondary schools, creating appropriate pedagogical conditions for them and individualizing the educational process are relevant. In this context, the need for the development and implementation of an individual educational trajectory for each student is increasing.

An Individual educational trajectory is an educational path that is structured in accordance with the individual characteristics, ability, interest, psychophysiological state and level of development of the student, ensuring the flexibility of the educational process. In an inclusive

education environment, this approach is particularly important, ensuring that students with special needs are also actively involved in the educational process.

In modern pedagogical theory, the trajectory of individual education is seen as an integral part of the paradigm of personality-oriented education. This approach puts the student at the center of the educational process and requires the development of his individual development strategy. At the same time, differential and competency approaches serve as a methodological basis in the effective organization of an individual trajectory.

Today, even the widespread introduction of digital technologies in the educational system significantly expands the possibilities of forming an individual educational trajectory. Through e-learning platforms, distance learning tools and adaptive curricula, it is possible to create an educational environment adapted to the individual needs of students [Atabayeva, 2024, P.2]. At the same time, innovative pedagogical technologies serve to develop students' independent thinking, problem solving and practical skills.

Also, scientific studies show that proper organization of an individual approach to inclusive education improves not only academic performance but also social adaptation of students [Mamatisaeva, 2025, P.353.]. This requires that the formation of an individual educational trajectory be considered as one of the most important areas of pedagogical activity.

The purpose of this article is to analyze the theoretical and methodological foundations of the formation of an individual educational trajectory in the context of inclusive education, summarize existing approaches and develop recommendations for their application in practice.

The objectives of the study include:

- revealing the content and essence of inclusive education;
- analysis of the theoretical foundations of individual educational trajectory;
- identification of methodological approaches;
- development of effective methods for the formation of an individual trajectory.

The results of this study are important to promote inclusive education, increase professional competence of educators and create a flexible and effective educational environment for students.

**Review of thematic literature:** The issues of inclusive education and the formation of an individual educational trajectory have been the object of extensive research in the fields of pedagogy, psychology and Educational Management in recent years. Scientific research carried out in this direction is aimed at highlighting the theoretical foundations, methodological approaches and practical mechanisms of this process.

First of all, the content and essence of the concept of inclusive education is interpreted differently by many researchers. Eshmamatova and Hakimova in their study interpret inclusive education as a system that ensures equal participation of all students, including children with special needs, in general educational institutions [8]. This definition shows that inclusive education is based on the principles of social justice and equality.

In the scientific research conducted by giyasova, the main problems in the introduction of inclusive education were analyzed, including factors such as insufficient training of educators, lack of methodological support and non-adaptation of educational programs [2]. This demonstrates the need for a systematic approach to the effective organization of inclusive education.

Mamatisaeva and co-authors analyze the basic principles of inclusive education, arguing that principles such as individuality, flexibility, openness and cooperation occupy an important place in it [4]. In particular, the principle of individuality forms the theoretical basis for the formation of an individual educational trajectory.

The concept of Individual educational trajectory is studied in pedagogical literature in close connection with the paradigm of personality-oriented education. Tulaboyeva's research is based on the fact that the educational process organized on the basis of an individual approach significantly increases the level of knowledge and acquisition indicators of students [6]. This demonstrates the practical importance of developing an individual trajectory.

Bakhromova highlights the place of innovative approaches in inclusive education in her scientific work, showing that modern pedagogical technologies, in particular interactive methods and ICT tools, make it possible to effectively implement individual educational trajectory [5]. These approaches serve to differentiate and individualize the learning process.

And in the research carried out by Atabayeva, the possibilities of the digital educational environment are widely analyzed and based on the fact that it is possible to organize education adapted to the individual needs of students using electronic platforms and adaptive learning systems [1]. This suggests that the formation of an individual educational trajectory on the basis of digital technologies is a promising direction.

Also, Torakulova studied the issues of development of the inclusive education system, emphasizing the importance of adapting the pedagogical environment, increasing the professional competence of teachers and introducing an individual approach [7]. These points reaffirm the need for an integrated approach to the formation of an individual educational trajectory.

Inclusive education and individual trajectory issues are also widely covered in research on international experience. In her work, Azimova analyzes the experience of developed nations to show that individual curricula (Individual Education Plan - IEP) are the primary means of inclusive education [9]. This model serves to identify the needs of each student and develop an appropriate educational strategy.

And in the conceptual approaches developed by Eshmamatova and Bobomurodova, it is emphasized that in the development of inclusive education, the harmony of public policy, regulatory framework and methodological support plays an important role [3]. This implies the need to consider the formation of an individual educational trajectory not only as a pedagogical process, but as a systemic social phenomenon.

The analyzed scientific literature shows that the formation of an individual educational trajectory in inclusive education is studied in the following main areas:

- theoretical foundations of inclusive education;
- individual approach and differential training;
- innovative pedagogical technologies;
- opportunities of the digital education environment;
- international experience and national model.

At the same time, in existing studies, it is observed that the complex model of the formation of an individual educational trajectory, its stages and methodological foundations are not sufficiently systematized. It is this aspect that determines the relevance of this study.

**Research methodology:** This study was aimed at determining the theoretical and methodological foundations of the formation of an individual educational trajectory in the context of inclusive education, in which a comprehensive approach was used. The research methodology was based on a complex of several interconnected scientific approaches, methods and principles.

#### Methodological basis of the study

The methodological basis of the study is the concept of personality-oriented education, the principles of inclusive education and modern pedagogical theories. These approaches justify the need to take into account the individual characteristics of students and adapt the educational process.

The study also relied on the following theoretical approaches:

1. Personality-oriented approach

This approach puts the student at the center of the educational process and implies taking into account his individual needs, abilities and interests. This approach is the main methodological basis for the formation of an individual educational trajectory. Based on this approach, an individual development strategy is developed for each student.

2. Systematic approach

The systematic approach considers individual educational trajectory as a single pedagogical system. It covers components such as purpose, content, methods, tools and results. These components function in an inextricable way and ensure educational effectiveness.

3. Competency approach

The competency approach is aimed at the formation of practical knowledge and skills in students. This approach requires taking into account the degree to which a student can apply their knowledge in real-life situations when defining an individual educational trajectory.

4. Differential and individual approach

This approach implies taking into account individual differences between students. In this process, students are grouped according to their level of knowledge, ability and development characteristics, and appropriate educational methods are used [6].

5. Activity-oriented approach

This approach aims to ensure active student participation, developing their independent thinking, problem-solving, and creative approach skills.

Research methods

The following scientific and methodological methods were used in this study:

1. Analysis of scientific literature

National and foreign scientific sources on inclusive education and individual educational trajectory were studied, their theoretical foundations were analyzed and summarized. Through this method, the relevance of the topic and the level of study were clarified.

2. Method of analysis and synthesis

During the study, existing theoretical views were analyzed and general conclusions were drawn on their basis. Through the synthesis method, various approaches were integrated and a single methodological model was formed.

3. Method of comparative analysis

National and international experiences were compared. Through this method, effective mechanisms for the formation of an individual trajectory in inclusive education have been identified [9].

#### 4. Pedagogical observation

During the educational process, the activities of students were observed and the effectiveness of the individual approach was assessed. This method helped determine the practical results of an individual educational trajectory.

#### 5. Modeling method

A model for the formation of an Individual educational trajectory was developed. This model includes the following steps:

Diagnostics, planning, implementation, monitoring and evaluation.

6. Expert assessment method (at the theoretical level)The opinions of educators and specialists are summarized, and effective approaches to the formation of an individual educational trajectory are clarified.

#### Principles of research.

The study was based on the following pedagogical principles:

- the principle of individualization-taking into account the peculiarities of each student;
- the principle of inclusiveness-to create equal opportunities for all students;
- the principle of flexibility-adaptation of the educational process to the student;
- continuity principle-ensuring the gradual development of the educational process;
- the principle of activity is to stimulate the active participation of students.

#### Scientific innovation of research

The scientific innovation of this research is as follows:

- in the context of inclusive education, a comprehensive model of the formation of an individual educational trajectory has been developed;
- methodological approaches systematized;
- on the basis of the stages of the implementation of the individual trajectory;
- effective methods of applying modern pedagogical technologies have been proposed.

#### Practical importance of research

#### Research results:

in the organization of inclusive education in secondary schools, in the professional activities of teachers, when developing individual training plans, can be used in the creation of methodological manuals.

Also, the results of this study serve to develop the competence of educators to work on the basis of an individual approach.

**Main part:**The theoretical essence of the individual educational trajectory

The trajectory of Individual education is considered as one of the main components of personality-oriented education in modern pedagogical science. It is a pedagogical system that determines the path of the student's individual development and is organized in accordance with his abilities, needs, interests and psychophysiological characteristics. In the context of inclusive education, this concept is more relevant and serves to ensure the right of each student to education.

In the scientific literature, individual educational trajectory is often considered in close connection with adapted curricula, individual curriculum, and differential teaching. This approach serves to increase the level of student assimilation, to develop their independent thinking, and to ensure their active participation in the educational process [6].

The importance of individual trajectory in the context of inclusive education

In the environment of Inclusive Education, individual differences between students are clearly manifested. This demonstrates the inadequacy of organizing the educational process on a standard approach. Therefore, the need arises to form an individual educational trajectory.

The importance of Individual trajectory is demonstrated in:

meet the individual needs of students, ensuring the integration of children with special needs into education, increase student motivation, improve the quality of Education.

Studies show that the educational process established on the basis of an individual approach also improves the social adaptation of students [4]. This is an important factor in achieving the main goals of inclusive education.

Stages of formation of an Individual educational trajectory

The formation of an individual educational trajectory in inclusive education is a multi-stage process, which includes the following main stages:

1. Diagnostic stage

At this stage, the individual characteristics of the student are studied in depth. Including: level of knowledge, psychological state, abilities and interests, health status. Diagnostic results serve as the basis for determining the trajectory of individual education.

2. Planning stage

At this stage, an individual educational plan is developed for the student. This plan includes:

*training objectives, educational content, method and tools, valuation criteria.*

*The principles of flexibility and individuality occupy a key place in the planning process.*

#### 1. Implementation phase

At this stage, an individual training plan is put into practice. The teacher uses the following techniques:

differential training, interactive methods, Gaming Technologies, ICT tools.

Modern technologies expand the possibility of individualization of the educational process [5].

#### Monitoring and evaluation phase

At this stage, the dynamics of the development of the student is analyzed. The evaluation process includes: current control, intermediate evaluation, final results analysis.

Based on the results of the Monitoring, the individual trajectory will be revised.

Pedagogical conditions in the implementation of an Individual educational trajectory

The following pedagogical conditions are necessary for the effective organization of an Individual educational trajectory: 1. Customized learning environment

The educational environment must be tailored to the individual needs of the students.

#### 2. Qualified educators

It is necessary that teachers have sufficient knowledge and skills in inclusive education methods.

#### 3. Methodological support

Adapted training programs and didactic materials should be available.

#### 4. Technological support

Digital technologies serve to effectively organize individual education [1].

Innovative and digital approaches

Innovative and digital technologies play an important role in the formation of an individual educational trajectory in the modern educational system. Including:

e-learning platforms, distance learning systems, adaptive curricula, AI-based educational tools.

These tools make it possible to provide education adapted to the individual needs of students. Especially for students with special needs, these technologies are of great importance.

Individual educational trajectory model (proposed)

Within the framework of this study, the following model of individual educational trajectory is proposed:

#### 1. Entrance block:

Diagnostics, identification of needs;

2. Design block:

making an individual plan, selection of methods;

3. Implementation block:

Organization of the educational process, application of pedagogical technologies;

4. Control block:

Monitoring, evaluation;

5. Correction block:

making changes according to the results.

This model is developed on the basis of a systematic and flexible approach, which can be effectively applied in the context of inclusive education.

Problems and ways to eliminate them

In the formation of an individual educational trajectory in inclusive education, the following problems are observed:

insufficient training of educators, lack of methodical materials, high number of students in grades, limitations of technological capabilities.

To solve these problems:

training of educators, methodological base enrichment, the introduction of digital technologies is necessary [2].

Conclusions and recommendations. As a result of the study, the following conclusions were drawn:

1. Individual educational trajectory is important in inclusive education.
2. Personality-oriented and differential approaches serve as the main methodological basis.
3. Modern technologies play an important role in the effective organization of individual education.

Recommendations:

- Organization of special trainings for educators;
- creating a Bank of individual education plans;
- Extensive use of ICT;
- increased interaction with parents.

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