

## EFFECTIVENESS OF PERSONALIZED LEARNING IN IMPROVING STUDENT OUTCOMES

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**Annotation.** This article explores the topic of "The effectiveness of personalized learning in improving student outcomes". The article examines the role of personalized education in the educational process, the importance of providing education in accordance with the individual characteristics and needs of students. Research findings suggest that personalized learning techniques are important in enhancing student motivation, developing self-management skills, and improving overall academic performance. The article also provides various methods of personalized education, the use of technology and practical recommendations for educational institutions.

**Keywords:** personalized education, educational methods, motivation, academic performance, educational system, efficiency.

**Introduction.** Personalized education is an approach aimed at organizing the educational process in accordance with each student and taking into account his individual characteristics. The role of personalization in the educational process is very important because each student has their own specific abilities, interests and needs [1]. Personalized education is aimed not only at giving knowledge, but also at ensuring the development of students, increasing their motivation and helping their self-awareness.

First, personalized education takes note of the differences between students. Each student has his own learning style, speed and abilities. For example, some students learn better through visual materials, while others focus more on practical experiences or written materials. Personalized education takes these differences into account and helps each student develop educational strategies that suit them. First, personalized education takes note of the differences between students. Each student has his own learning style, speed and abilities. For example, some students learn better through visual materials, while others focus more on practical experiences or written materials. Personalized education takes these differences into account and helps each student develop educational strategies that suit them. This, in turn, increases the effectiveness of the educational process.

Secondly, taking into account the individual needs of students helps to improve the quality of the educational process. Some students require more time spent in classes, while others seek to achieve quick results [2]. Through personalized education, teachers can identify the needs of each student and provide them with suitable tasks and activities. This encourages students to participate more actively and develops their self-management skills.

Third, personalized education provides students with motivation. Teachers can understand their interests and goals by being in close contact with students. When students have the opportunity to work with materials that are interesting and useful to them, their motivation increases.

Through a personalized approach, teachers can support students in achieving their goals, which leads to their active participation in the educational process.

Fourth, through personalized education, students achieve self-awareness and development. It is important that each student knows his strengths and weaknesses. A personalized approach helps students identify their abilities and learn how to use them [3]. This serves to develop their capacity for self-assessment. Fourth, through personalized education, students achieve self-awareness and development. It is important that each student knows his strengths and weaknesses. A personalized approach helps students identify their abilities and learn how to use them [3]. This serves to develop their capacity for self-assessment. A self-conscious student will be more successful because he will be able to find the resources necessary to achieve his goals. As a result, personalized education plays a very important role in the educational process. Educating students in accordance with their individual characteristics and needs increases their success, reinforces their motivation, and helps them achieve self-awareness [4]. Through this approach, the educational process becomes more efficient and meaningful, which is important in preparing future generations. Personalized education is an important tool not only to give knowledge, but also to ensure the development of each student as a person.

Personalized education refers to the process of educating each student to suit their individual needs. There are various methods and technologies to implement this approach. Below are various methods of personalized education, the use of technology and practical recommendations for educational institutions. Different methods of personalized learning:

- ✓ Depending on student abilities, interests and learning styles, the teacher assigns specific tasks for each student. For example, for some students, complex issues may be given, while for others, tasks may be given to repeat basic concepts.
- ✓ To give students the opportunity to plan and manage their own reading processes. This method encourages students to be more responsible in achieving their goals.
- ✓ Organization of classes taking into account various learning styles (visual, auditory, kinesthetic). A variety of reading materials and activities are provided for students.
- ✓ Students work in groups to assist each other in teaching. In the process, students have the opportunity to learn from each other. Organization of classes taking into account various learning styles (visual, auditory, kinesthetic). A variety of reading materials and activities are provided.

On the use of technology:

- Through online platforms such as Moodle, Google Classroom, Edmodo, students can control their learning process and access materials.
- Programs such as Kahn Academy, DreamBox, IXL offer materials according to the level of knowledge of students and monitor their progress.
- With the help of educational applications designed for students (Duolingo, Quizlet), they can learn independently at their own time and place.
- Through VR and AR technologies, students can get interactive and immersive learning experiences.
- Educational institutions can use analytical tools to analyze student results, track the progress of each student and offer personalized approaches.

Ta'lim muassasalari uchun amaliy tavsiyalar

- ❖ Provide training to prepare teachers to use personalized learning methods and technologies.

- ❖ It is important to maintain constant communication with students, to identify their needs and interests.
- ❖ Teachers should adapt lesson plans and materials to the needs of students.
- ❖ Introduce modern technologies in the educational process and encourage their effective use.
- ❖ It is important to involve parents in the educational process, provide them with information about their children's development and encourage them to provide additional support at home.
- ❖ Continuously monitor the results to assess the effectiveness of personalized learning and change approaches if necessary.

By using personalized learning methods and technologies, educational institutions can create more effective and engaging learning experiences for students, which can help increase their academic success.

**Conclusion.** In conclusion, personalized learning plays an important role in improving student outcomes. This approach ensures that each student is taught according to their individual needs, abilities, and interests. Research shows that personalized learning methods increase student motivation, develop self-management skills, and encourage active participation in the learning process. Through this approach, students more effectively acquire the knowledge and skills necessary to achieve their goals. The effectiveness of personalized learning is also further enhanced by the use of modern technologies by teachers and educational institutions. In general, personalized learning has a positive impact not only on improving student outcomes, but also on their overall development.

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