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### RESEARCH ARTICLE

#### EFFECTIVENESS OF IMPLEMENTATION OF BLENDED LEARNING AND FLIPPED CLASSROOM METHODS IN HIGHER EDUCATION INSTITUTIONS

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#### Abstract

This article is devoted to studying the effectiveness of introducing Blended Learning and Flipped Classroom methods to provide new approaches to learning processes in higher education institutions. Throughout the article, an understanding of these methods, how they are implemented in practice, the importance of using them to improve student learning and morale, and the results obtained from them are compared.

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#### Introduction:-

Improvement of study processes, creation of spiritual and educational experiences for students, and application of new teaching methods for teachers have become one of important issues in higher education institutions. This article examines the role of Blended Learning and Flipped Classroom methods in higher education and their specific effectiveness.

In the Decree No. PF-5847 of the President of the Republic of Uzbekistan Shavkat Mirmonovich Mirziyoyev dated October 8, 2019 "On approval of the concept of the development of the higher education system of the Republic of Uzbekistan until 2030", "individualization of educational processes based on digital technologies, He expressed his views on the development of distance education services, the wide implementation of webinar, online, "blended learning" and "flipped classroom" technologies.

Information technologies offer various new forms of education, in particular, the principle of a complex approach in the modular education system is gaining strength in recent times. The placement of various forms and methods in it has led to the introduction of mixed education as an innovation.

Declan Burn says about "blended learning" (mixed education) - "this education is aimed at effective use of rich pedagogical experience". Such an approach can be based on the use of different methodologies in the presentation of information, information technologies in the organization of education and the educational process, and the organization of traditional activities individually and in groups. Such a different approach does not tire the student and increases his motivation to study. The main issue is ensuring the compatibility of the chosen methods and achieving high efficiency at a low cost.

Flipped classroom model. The motto of this model is "online learning, the offline program", and in the modified classroom, the elements of lectures and practical homework are changed. Students learn new content at home before class, and class time is dedicated to active learning and application of newly learned skills. This can take the form of

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discussions, case studies, or project work. The instructor's role is to guide students by answering questions and supporting them in applying course concepts.

Based on these considerations, it is recommended to use online textbooks, websites, video lessons, and other online tools, using the latest technologies, in the implementation of Blended Learning and Flipped Classroom methods.

#### **Training students:**

Teachers prepare students to use Blended Learning and Flipped Classroom methods. This includes helping students understand how to read online, access information by completing online tasks, and learn to discuss with each other through online platforms.

#### **Using online platforms:**

When introducing the Blended Learning method, it is appropriate to use virtual learning tools and platforms. Moodle, Google Classroom, Microsoft Teams, and other platforms are adapted to support students, assign tasks, and monitor learning processes.

#### **Create interactive and practical tutorials:**

Teachers can give students more opportunities by creating interactive and practical tutorials. Through virtual laboratories, interactive tests, and practical exercises, students can practically learn theoretical knowledge.

#### **Integrating teaching and learning:**

When implementing the Flipped Classroom method, teachers make teaching in the classroom more multi-layered. Before class, students study topics explained through online tutorials and materials, and in class, they reinforce this knowledge independently through practice.

#### **Developing communication with students:**

Developing a multi-layered communication system between teachers and students, supporting students, regularly communicating through questions and answers, as well as understanding and helping students through one-on-one assessment of their learning processes is important.

Through these milestones, the implementation of Blended Learning and Flipped Classroom methods in higher education will be increased and help to create opportunities to make learning processes more effective and spiritual.

#### **Methods:-**

In this article, to study the effectiveness of introducing Blended Learning and Flipped Classroom methods in higher education institutions, the results of educational processes, students' mastery, and the improvement of teaching processes for teachers are analyzed. Experiments and practices aimed at applying Blended Learning and Flipped Classroom methods are used for learning in higher education institutions.

<b>Steps and Activities</b>	<b>Advantages</b>	<b>Disadvantages</b>
Attention to the latest information	- Using new technologies, making learning processes more complicated through online textbooks, websites, and video lessons.	- Disadvantages caused by teachers and educational institutions that are not equipped with enough technology.
Training students	- Preparing students for online learning, improving students' understanding and mastery of online learning.	- Students' perceptions of structured learning processes in an online environment.
Using online platforms	- Use of virtual learning tools and platforms, making distance education more effective and suitable for all students.	- Initial problems in accessing the Internet, obtaining knowledge working with online platforms, or providing a service.
Create interactive and practical tutorials	- Opportunity for students to get more practical-experiential knowledge.	- Failure in lesson design and teaching, lack of experience with interactive methods.

Steps and Activities	Advantages	Disadvantages
Integrating teaching and learning	- Connecting teaching and student learning processes in the classroom, combining learning processes with new approaches.	- Spending a lot of time for teachers on students preparing and learning independently.
Developing communication with students	- Creating interactive communication between students and other celebrities by organizing discussions and contests.	- Limiting the use of other classes, seminars, and practices.

This chart explains the advantages and disadvantages of implementing Blended Learning and Flipped Classroom methods. Mastering and managing each step with approval helps minimize defects.

Experiences and practices aimed at applying Blended Learning and Flipped Classroom methods show specific transitions in the further development of learning processes in higher education institutions. Through the following examples, we can provide information about the experiments conducted with these methods and their results:

#### **Singapore University of Technology:**

The Singapore University of Technology has conducted experiments in several directions to introduce and research the Blended Learning method. They used online platforms, video lessons, and interactive materials among teachers and students. As a result, students are becoming more independent in their learning, and students are learning based on the teaching materials provided by the teachers.

#### **Harvard University:**

Harvard University conducted experiments using the Flipped Classroom method. Before class, students study video lessons and participate in independent and interactive discussions with teachers in class. As a result of this method, the students' thinking, and logical skills are improved because the teachers ask them many questions in the lesson and increase their scientific regularity.

#### **Khan Academy:**

The Khan Academy online platform is one of the best examples of Blended Learning. Through this platform, students can manage their learning, collaborate with other students, and communicate with teachers online. As a result of these experiences, students are increasing their mastery of learning.

#### **Stanford University:**

Stanford University develops its new classes to support the Flipped Classroom method. Before class, students study online materials created by instructors, and in class, they enhance their learning through hands-on activities and labs. As a result, students are creating opportunities in a safe environment to learn new knowledge and prepare themselves in cooperation with teachers.

In general, these experiences differ from traditional lessons in that they are designed to improve students' self-learning ability, develop thinking, and logical abilities, and make learning processes more effective.

#### **Results:-**

The article compares the results of introducing Blended Learning and Flipped Classroom methods in higher education, improving students' mastery, developing teaching methods for teachers, and showing educational processes. They use data from experiments to show the results of combining learning processes with more effective and spiritual approaches (Figure 1).

This picture shows the benefits obtained in making the study process more efficient and spiritual. Mastering each part will lead to the development of teaching methods for teachers, and the effective use of educational processes.

#### **Discussion:-**

Throughout the article, the importance of introducing Blended Learning and Flipped Classroom methods in higher education and their advantages and disadvantages are discussed. Support of educational processes with new approaches, improvement of students' mastery, and problems that may arise in the use of new teaching methods for teachers are analyzed.

Several challenges may arise when supporting learning processes with new approaches, improving student learning, and adopting new teaching methods for teachers. Below are some of the problems that may occur during the implementation of these processes and the skills that will be improved as a result of solving the problem:

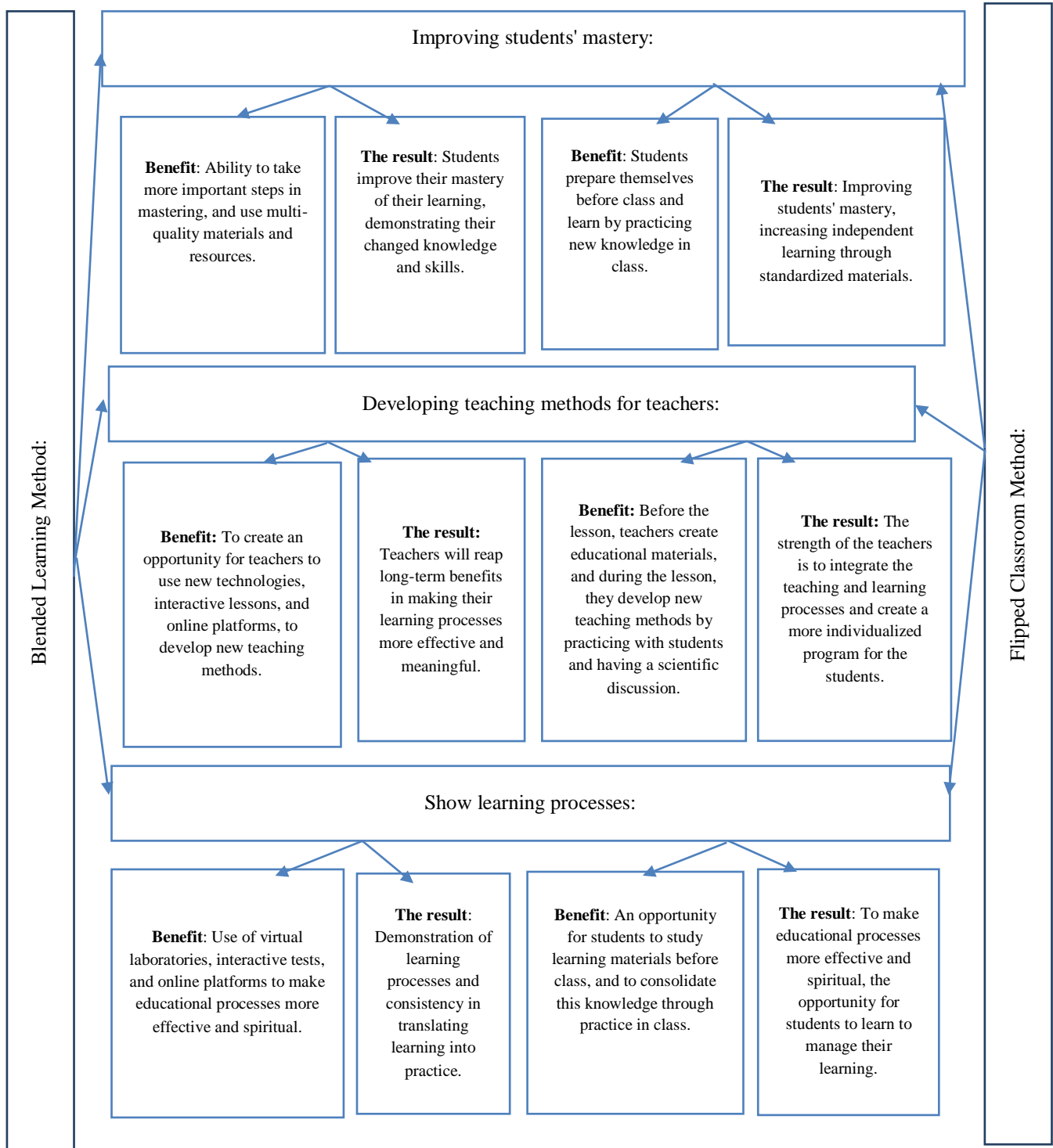


Figure 1:- The benefits of making learning processes more effective and spiritual.

**Introduction to Technology:**

**Problem:**

Certain developmental milestones need to be skipped as students and teachers access and use technology.

**Outcome:**

Teachers and students can provide technology tools for quality learning and self-expression. Teachers must use these tools consistently and show students how to use them.

**Individual training:**

**Problem:**

Each student has a unique skill set and learning style. This can make it difficult to customize learning processes for each student.

**Result:-**

Creating personal training programs for organizing individual learning directions and assigning personal directions to students will help them improve their mastery. This process helps students achieve their learning goals and goals.

**Communication between students and teachers:**

**Problem:**

Problems with good follow-up and discussion between teachers and students instead of communication through e-mail, online discussions, or online platforms.

**Outcome:**

Teachers and students will learn ways to better observe instead of online communication to provide reliable, effective, and specifically needed information. For this, it is important to use scientific discussions, online surveys, or manual and tutorial programs.

**Cognitive training:**

**Problem:**

It may be more difficult to make the transition to new, logical, and thought-provoking methods than traditional teaching methods.

**Outcome:**

Teachers will be successful in learning, using, and disseminating new ways to teach students to express, strengthen, and improve their reasoning skills. Teachers can use many experiential materials to encourage students to discuss, ask reflective questions, and explore ideas.

These problems may arise when applying new approaches and teaching methods. Reliable communication between teachers and students, the use of reliable technological tools, and the development of individual educational directions for each student can help to solve the problems that have arisen.

There is a wide range of researched results and experiences about the effectiveness of introducing Blended Learning and Flipped Classroom methods to higher education institutions. They are generally collected as follows:

**Learning Outcomes and Knowledge:**

Blended Learning and Flipped Classroom methods bring educational processes to new levels and create opportunities for independent learning of students. Interactive and hands-on learning methods make students more self-directed and more productive.

**Student Motivation:**

Students are more motivated to learn themselves through programs that are integrated into the learning process. In the Flipped Classroom method, students study material before class and are supported in class through exercises and discussions, allowing them to learn important subject matter to improve their mastery.

**Teaching Methods for Teachers:**

Teachers update their teaching methods using Blended Learning and Flipped Classroom methods. These methods give teachers confidence in using online platforms and virtual tools, preparing lessons, and other methods of communication with students.

**Communication and cooperation with students:**

Blended Learning and Flipped Classroom methods create more opportunities than other learning methods by encouraging regular discussions, tasks, and productions among students. Through virtual forums, online discussions, and group assignments, students come into close contact with other students.

**Individual Study Directions:**

Blended Learning methods allow to support the individual learning direction of each student. This helps structure the manual according to each student's unique skills, frequency, and formation.

**Effective Student-Teacher Communication:**

They expand the possibilities of managing students' knowledge levels by creating regular communication between teachers and students via the Internet, assigning other lessons and tasks via e-mail, as well as online surveys and tests.

**Sincere Interpretations and Indications:**

Teachers can guide students through online video lessons, interactive tutorials, and hands-on activities to help them master and learn new knowledge.

The above experiments have generally been successfully conducted in many educational institutions. These spiritual changes are helping to make educational processes more effective and spiritual, increase student learning, and provide teachers with new teaching methods. These methods have yielded good results in creating a preferred learning method for learners and teachers.

**Summary:**

Summarizing the results and experiences of the effectiveness of the introduction of Blended Learning and Flipped Classroom methods to higher education institutions, according to the results of the study, these methods can further develop the learning processes in higher education, improve the quality of students. improvement of skills can be effective for teachers in applying new teaching methods. We hope that this article will provide important information for teachers, researchers and students who want to apply new learning processes and teaching methods in higher education. If you have gained useful information through our article, we have taken a step towards the goal.

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