



Comparative Analysis Of The Use Of Modern And Traditional Methods Of Education In Higher Education.

Rustamov Mirodiljon Muhammadjonovich

Andijan State Medical Institute

Teacher of information technology in medicine

ABSTRACT

This article presents the results of research on the use of effective methods and means of teaching students in higher educational institutions. The relevance of the article lies in the fact that it examines the practical significance of using new teaching methods in the training of highly qualified personnel in accordance with the requirements of the time, as well as the possibility of choosing teaching methods used to determine the level of their effectiveness. Two teaching methods used to determine the effectiveness of teaching the subject of information technology in higher education were studied, namely the effectiveness of traditional educational technologies and interactive educational technologies. A comparative analysis of the use of modern technologies of experimental and control groups was carried out.

ARTICLE INFO

Received: 1st May 2023

Revised: 6th June 2023

Accepted: 4th July 2023

KEYWORDS:

Introduction

One of the factors of the development of the Republic of Uzbekistan is the training of personnel with a high level of knowledge, quickly adapting to society, having a deep knowledge of the basics of general education and relevant professional knowledge, the formation of professional qualities requires development and adaptation to the needs of society as a whole. Taking this into account, the use of modern teaching methods is based on the demand of today, the demand for this period is determined. today in higher education institutions traditional teaching methods include:

1. Traditional Methods:

- Lectures: In-person lectures delivered by professors or guest speakers are a common traditional method. These lectures may be supplemented with textbooks and handouts.
- Tutorials: Small group sessions led by a professor or teaching assistant where students can discuss and ask questions about the course material.
- Laboratories: Practical sessions conducted in science, engineering, or other technical fields to provide hands-on experience and reinforce theoretical concepts.
- Exams: Traditional exams, such as written tests or oral examinations, are often used to assess students' knowledge and understanding.

2. Modern Methods:

- Online Learning: The use of learning management systems (LMS) and online platforms allows students to access course materials, submit assignments, participate in discussions, and take quizzes or exams remotely.
- Blended Learning: A combination of in-person and online learning, where lectures or discussions take place in the classroom while additional materials and activities are provided online.

- Interactive Technologies: The integration of technology tools like multimedia presentations, simulations, virtual reality, and educational apps to enhance student engagement and understanding.

- Collaborative Learning: Group projects, online forums, and video conferencing tools facilitate collaboration among students, encouraging them to work together and learn from each other. Many institutions now adopt a blended approach, combining elements of both traditional and modern methods to create a more comprehensive and effective learning experience. The specific mix of methods employed may vary based on the subject matter, available resources, and the preferences of the instructors and students.

We will analyze below by comparing the results obtained from modern educational methods using virtual reality technologies and traditional educational methods.

Material and methods

Today, virtual reality systems are a new concept that makes it much more difficult to trace information about it. VR creates a user environment with an advanced computer graphics and a 3-dimensional virtual background using a variety of displays and interfaces. Therefore, VR is widely used in many areas, including educational, medical education, where its application is also important.

As an object of research, 62 students of the Faculty of treatment of Andijan State Medical Institute were selected and they were divided into two groups. We used traditional teaching methods for students in the first group. We used modern methods of education for students of the second group.

Results

In order to determine the level of effectiveness of the selected technologies in the teaching of the subject of information technology, various methods were used, such as observation, questioning, testing, a written survey, in order to study the effectiveness of students' work on themselves, a virtual survey was conducted. As a result of the survey, the following data were obtained: the majority of students preferred VR technologies, which showed the development of the ability to work on themselves - 72.7%, while 27.3% of the remaining students prefer traditional learning technologies. The results obtained can be seen in this table (Table 1).

(Table 1).

The direction in which the experimental testing is carried out	Research groups	Number of students	Rating (85-100)		Rating (70-85)		Rating (55-70)		Rating (0-55)		teaching quality	educational performance
			количество	%	количество	%	количество	%	количество	%	%	%
Faculty of treatment	Experimental group (used virtual reality technology)	32	8	25	14	43,7	10	31,3	-	-	68,7	99,9
	Experimental group (used traditional learning technologies)	30	6	20	14	46,7	8	26,7	2	6,7	66,7	93,3

The data presented in the table shows that the quality of training when using virtual reality systems technologies was 66.7 percent.

Conclusion

In conclusion, this study proves that the use of virtual reality technologies in medical education can positively affect the motivation and performance of students. The results show that the use of virtual reality technologies can be used to create an environment conducive to autonomy, which encourages students to take responsibility for their education and actively participate in the learning process.

References:

1. Sung K. A case study on a flipped classroom in an EFL content course. *Multimedia – Assisted Language Learning*, 18(2), Korea, 2015.
2. Chen, Y. J. Dimensions of transactional distance in World Wide Web learning environment: A factor analysis. *British Journal of Educational Technology*, 32(4), British 2001.
3. W. Ray Crozier. *Individual Learners: Personality Differences in Education*. London and New York