

# The role of online platforms in improving the effectiveness of lessons in higher education

Shoira Kh. Abdullaeva<sup>1</sup>, Saida Kh. Makhkamova<sup>2</sup>, Khazrat H. Jabborov<sup>3</sup>, Sayyora R. Kamalova<sup>4</sup>,  
Rano A. Khaydarova<sup>5</sup>, Dilafruz B. Botirova<sup>6</sup>

Tashkent State University of Oriental Studies, Uzbekistan<sup>1,2,3,4,5,6</sup>

## Article Info

### Article history:

Received

Revised

Accepted

### Keywords:

innovative educational  
technologies; electronic  
portfolio; blogfolio; multimedia  
programs, Signaling Principle,  
PowerPoint presentations,  
educational process

## ABSTRACT (10 PT)

The article presents an analysis of the most popular innovative educational technologies used in the modern educational process in Uzbekistan and abroad - presentations, portfolios and blogfolios. The author gives the main methodological principles and criteria able to ensure the effectiveness of the use of innovative educational technologies and role of online platforms in improving the effectiveness of lessons in higher education.

Copyright © 2019 Institute of Advanced Engineering and Science.  
All rights reserved.

### Corresponding Author:

Shoira Kh. Abdullaeva,  
Doctor of Science, Professor,  
Tashkent State University of Oriental Studies, Uzbekistan.  
Email: [s.science@internet.ru](mailto:s.science@internet.ru)

## 1. INTRODUCTION

Today's schoolchildren and students are representatives of the generation of millennials ('millennials'). They were born and raised in an environment of modern technology, which led to a change in students' expectations of how teachers should present the material. One of the trends in modern education is the increasing integration of innovative educational technologies into the educational process, but this does not mean at all that any use of multimedia programs will lead to successful learning outcomes. On the contrary, now, more than ever, teachers and educators should be most careful in choosing innovative educational technologies and follow the principles that will allow them to implement these technologies most effectively. For example, PowerPoint presentations, which are fairly well established as a learning tool, are not always effective unless you take into account the principles that make learning more effective through the use of technology. So, M. Miller considers and draws attention to the following principles necessary for the use of innovative technologies.

1. Signaling Principle. According to this principle, only the most important aspects of the material should be visually highlighted.

2. Spatial Contiguity Principle. This principle states that for better assimilation of the material, text and image should be placed as close as possible to each other, and when using graphs, text should be placed where their most significant parts are.

3. The principle of temporal proximity (Temporal Contiguity Principle). According to this principle, descriptions and explanations should be entered simultaneously with the demonstration of graphs and images, since even small periods of time will not lead to the desired result.

4. Segmenting Principle. When explaining complex material or when working with students who are not familiar with the subject, break the material into shorter segments and allow students to control the speed at which they move from one segment to the next.

5. Pretraining Principle. If students are unfamiliar with the terminology that will be used in the presentation, a separate module should be created to explain the underlying concepts in detail.

6. Modal principle (Modality Principle). Students remember the material better if graphic images are supported by audio accompaniment, and not by text, unless the text contains technical terms or students are native speakers of another language.

In addition to presentations, the next innovation in the educational process is the electronic portfolio. While presentations are a great way to explain new material to learners, e-portfolios are a great way to assess learners' knowledge and skills. Thus, a portfolio is a collection of student work, selected by him or with the help of a teacher, and demonstrating his progress in learning. The portfolio provides an opportunity for individual assessment of the student and is often used in foreign language education. Electronic portfolios are still the same collection of student works, however, these works also include audio and video materials collected on the same electronic platform. The creation of an electronic portfolio must also follow certain rules and requires the following tasks:

1. Determine the purpose for which the digital folio is being created. This goal should be aimed at meeting the most important educational needs of students.

2. Determine how the information contained in the electronic portfolio of students will be used.

3. Select the type of electronic portfolio: - a portfolio collection, which can consist of all the work of the student with comments and observations of the teacher;

- portfolio presentation, which will include only the best work of the student;
- an evaluation portfolio consisting of a systematically selected work of the student with comments and observations of the teacher.

4. Match the entries in the portfolio with the activities in the lesson. This means that you should think about how the activities that are familiar to students can be used to maintain their portfolio.

5. Introduce portfolio maintenance into a mandatory activity for students, gradually replenishing the portfolio during the quarter, semester, academic year and complicating tasks.

6. Plan how student progress will be monitored and evaluated. In this case, formal evaluation will not be an effective means of evaluation. The use of checklists, detailed headings and teacher comments will most accurately characterize the progress of students.

7. Involve students in the process of designing their own portfolios in accordance with certain criteria and recommendations.

8. Use creative ways to monitor and evaluate student portfolios, for example: - choose a few portfolios each day or week and discuss them with all students;

- give students time to evaluate each other's portfolios a friend or ask students to evaluate their own portfolios.

Next, we turn to an analysis of the principles of using a relatively new type of electronic portfolio, which is called a blogfolio (blogfolio) and which is gaining its popularity in foreign language education. A blogfolio is an interactive online blog created by students with a specific educational purpose. Blogs are often used in foreign language education to improve reading and writing in a foreign language, increase involvement in the educational process, as well as to provide an opportunity for self-expression and creativity in students. Like more traditional electronic portfolios, blogfolios have certain criteria that make them an effective tool for learning a foreign language.

1. One of the most important criteria is the choice of a topic that students will discuss in their blog folios.

2. Next, learners need to be provided with resources that they can use and analyze to improve and expand their knowledge of the selected blogfolio topics.

3. The next step is to gradually populate the blog folio with material that the students have chosen based on the information they have provided. Searching for additional information and presenting it on the blog should also be encouraged at this stage.

4. At the last stage, students should not only finish filling their blog, but also create a presentation (in this case, it is preferable to use the Prezi cloud service) and, based on it, record their own video, which will reveal the topic chosen for the blogfolio. Thus, the use of innovative technologies in education, in particular in the teaching of foreign languages, can significantly expand and diversify the types of activities of students, which in turn positively affects the results of the educational process. However, it should be noted that this positive effect can only be achieved with careful planning of goals, results and current activities, all of which should be aimed at meeting the educational needs and needs of students.

## 2. RESEARCH METHOD

Today, digital technologies are rapidly developing and require keeping up with the times in every field. The use of digital technologies in the educational system is of great importance in improving the quality of education and educating socially active young people in the present era, when the speed of obtaining and

using information is very high. Previously, we conducted educational programs in the traditional way, that is, in the form of lecturing through large books and manuals. This, in turn, did not ensure that the quality of education was so high.

Currently, the process of digitalization of education has started to improve the quality of education. The current state of the education system is characterized by the increasing role of non-traditional educational technologies. Learning by the learner with their help is much faster than traditional technologies. These technologies change the nature of knowledge development, acquisition and distribution, deepening and expanding the content of the studied subjects, quickly updating it, using more effective teaching methods, and also significantly expanding the opportunity for education for everyone. We will answer the question of what digital technology is as follows: it is a modern form of business management. a large set of data in digital form and the process of their processing serve as the main factor of production and management. Using the obtained results in practice makes it possible to achieve much greater efficiency compared to traditional forms of management. For example, various automatic production processes, 3D technology, cloud technologies. it is possible to mention the provision of remote medical services, the production and delivery of products with the help of smart technologies, the processes of storing and selling various goods. In this article, we will focus instead on digitization in the education system. Nowadays, teaching and learning has become one of the most urgent issues in the world. Because it is no secret that quality education plays an important role in saving the world we live in from various problems. Because of this, the states allocate a lot of money to the education sector. Considerable work is being done in this regard in our country. Despite this, there are a number of issues that are still waiting for their solution in our educational system, without which it is impossible to talk about modern quality education. In particular, in the present era, when the speed of information acquisition and use is very high, in our opinion, it is impossible to improve the quality of education and educate socially active young people without involving digital technologies in the educational system.

Previously, we conducted educational programs in the traditional way in the form of lectures. This was also done through large books and manuals. This, in turn, did not ensure that the quality of education was so high. Pupils had to carry large volumes of literature and large bags in order to master various additional materials. Now the process of digitalization of education has started. We will answer the question of what is digital technology as follows: it is a modern form of economic management, in which a large set of data in digital form and the process of processing them serve as the main factor of production and management. Using the obtained results in practice makes it possible to achieve much greater efficiency compared to traditional forms of management. For example, various automatic production processes, 3D technology, cloud technologies. it is possible to mention the provision of remote medical services, the production and delivery of products with the help of smart technologies, the processes of storing and selling various goods. In this article, we will focus instead on digitization in the education system.

If education is provided through digital technologies, the methods of education are becoming easier for learners. In this case, multimedia, overhead projector, computer, laptop, televisions connected to the Internet, telephone lines, smart boards, and projectors play the role of educational system mediators. Training teachers with such tools ensures the improvement of the quality of education. We all know that the use of digital technologies in online classes has a good effect. For example, we can consider online classes given on television as a type of digital education.

### 3. RESULTS AND DISCUSSION

If education is provided through digital technologies, the methods of education are becoming easier for learners. In this case, multimedia, overhead projector, computer, laptop, televisions connected to the Internet, telephone lines, smart boards, and projectors play the role of educational system mediators. Teaching teachers with such tools ensures the improvement of the quality of education. We all know that the use of digital technologies in online classes has a good effect. For example, we can consider online classes given on television as a type of digital education. Therefore, in digital education: - one has the opportunity to get education at any place and at any time; - the culture of receiving and using information from the Internet is formed; - raises the education system to a new level; - dramatically reduces time and money consumption; - Such as not getting lost in the 'digital world' and having advantages in finding a good job. The opening of Wi-Fi zones and IT parks will greatly contribute to the development of the digital education system. It will be possible to increase the ability of educators to work with digital technologies and organize various open courses via the Internet. This, in turn, helps educators to work harder on themselves and increase the quality of education due to competition. In addition, when digital technologies and the introduction of artificial intelligence technology are used to detect tax evasion, prevent fraud, analyze data and automate repetitive processes, and increase transparency, large volumes of data - And big data provides an opportunity to store and process a large amount of data received by tax authorities, to better predict revenues and to improve the exchange of documents between taxpayers and tax authorities. The implementation of modern standards requires not only high qualifications and continuous professional development from the teacher, but also a

creative approach to his work. It is becoming very important for the teacher's creativity to review and improve his experience, to be able to change and creatively use things known to everyone, to create quality innovations. The concept of creativity (lat., eng. "create" - creation, "creative" means creativity when translated from English), Creativity can be called: striving for creativity, creative approach to life, constant self-critical observation and analysis. Based on the modern dictionaries of psychology and pedagogy, the teacher's creativity can be defined as the level of knowledge, feelings, communication, special activity, creative approach. Today, digital technologies are rapidly developing and require keeping up with the times in every field. For example, the introduction of artificial intelligence technology is useful in detecting cases of tax evasion, preventing fraud, analyzing data and automating existing processes and increasing transparency, while large-volume data - Big data provides an opportunity to store and process large amounts of data received by tax authorities, better predict revenues and improve document exchange between taxpayers and tax authorities. Data is the most important factor in the digital age. As a result of observing the data, the following conclusion was drawn: In conclusion, it can be said that the introduction of digital technologies in various fields, not only in the education system, plays a big role in the modernization of the country's education system. Today's classrooms are very different from ten years ago, and classrooms are equipped with computers, iPads, tablets, smart boards, and other types of educational technology. As in other parts of the world, the seven-screen generation of the digital generation - TV, computer, tablet, phablet, smartphone and smartwatch - is emerging in Uzbekistan. As a result of having such a dense digital environment and constant interaction with it, the thinking and information processing processes of today's students are fundamentally different from the thinking and information processes of the past. The digital generation cannot and should not be taught the way our parents learned.

The adoption of digital technologies is happening faster than any other innovation in the history of mankind: in just two decades, digital technologies have reached almost 50% of the population of developing countries and with their help transform societies.

For example, advanced technologies based on the use of artificial intelligence in the healthcare sector are helping to save human lives, detect diseases and increase life expectancy. In the field of education, the provision of virtual learning environments and distance learning has allowed students to participate in programs that they would not have otherwise. In addition, through the use of blockchain-based systems, the use of public services will be convenient, the institutions that provide them will be more accountable, and the processes will be less bureaucratic due to the use of artificial intelligence. Big data can also lead to more flexible and accurate policies and programs.

Below we will touch on some digital technologies: cloud technologies are data processing technologies that provide computer resources as an online service to the Internet user.

Digital technologies - Internet of Things (IoT), One of the main technologies based on digital information is the Internet of Things. It is common for many household appliances to be connected to the electrical network, but gradually more and more objects of the physical world are connected to the Internet, which allows collecting information and even controlling these objects remotely. In fact, a virtual copy of a physical object appears on the Internet, containing various parameters of the object and the outside world, and allowing to control the object via the Internet. As an example of the Internet of Things, a device such as a projector in a movie theater sends a signal to the technical support service about a detected fault and a list of parts that need to be replaced as part of unscheduled maintenance.

Digital technologies - augmented reality (AR). The most promising is augmented reality technology, which allows adding objects from the virtual world to the real world. Imagine walking down the street and seeing more information about things and people around you. Examples of augmented reality already exist and are actively used, in some amusement parks you can already see signs that show the connections between objects in the physical world and the virtual world. Games with elements of augmented reality are actively spreading, clothing stores have virtual windows and fitting rooms, augmented reality is already being tested in cars. At the same time, there are issues that need to be resolved in order to actively use augmented reality technologies. For example, the accuracy of geolocation tools is still insufficient, or the computer vision technologies for connecting objects of the physical world with their virtual counterparts are imperfect. However, it is safe to say that in the near future this technology may be associated with breakthroughs.

#### 4. CONCLUSION

Digital technologies - virtual reality (Virtual reality, VR), The emergence of technical devices that allow a person to be in virtual reality has made this technology in demand in the entertainment industry. Helmets and suits of virtual reality, specialized rooms allow you to enter an unknown world, all your actions are programmed to respond from the virtual world, which allows you to immerse yourself 100%.

In the field of education, VR is changing the way students learn. The use of VR in classrooms helps students learn by better assimilation of knowledge and difficult concepts plays It serves to organize modern education and increase the effectiveness of education.

## REFERENCES

- Gregg B. (2014). System Performance: Enterprise and Cloud, 2. [https://koptelov.info/publikatsii/digital\\_technology](https://koptelov.info/publikatsii/digital_technology) 3.
- Bakiyeva, F., & Mirzamedova, N. (2019). EFFICIENCY OF ONLINE TRAINING. Theoretical & Applied Science, (11), 56-58.
4. Bakiyeva, F. R., Primkulova, A. A., & Mirzamedova, N. D. (2020). Smart And Development Of Modern Education.
5. Mirzamedova, N. D. (2015). Using macros in Power Point to create test tasks. Science, Technology and Education, (4(10)), 180-182.
6. Abdurakhmanova, Sh. A. (2017). Development of pedagogical science in the Republic of Uzbekistan. Young Scientist, (1), 428-430.
- Toshtemirov D.E., Niyazov M.B., Yuldashev U.A., Irsaliev F.Sh. Resource support of distance course information educational environment // Journal of Critical Reviews ISSN- 2394-5125 Vol 7, Issue 5, 2020, pp. 399-400
2. Yuldashev, U.A., Khudoyberdiev, M.Z., & Akhmedov, T.B. (2021). Use of modern information technologies to improve the quality of the educational process. //Academic research in educational sciences, 2(3), 1262-1268.
3. Yuldashev U.A. Use of video lesson creative technologies in the process of electronic education// Scientific-Methodical Journal-T 2021
4. Jasur Daniyori Saidov, Saidullo Payzievich Allayorov, Said Khalilovich Islikov, Criteria for evaluating professional competence in creating a database // Scientific progress. 2021. #1. URL:
- Abdullaeva, S. K., Shayusupova, A. A. Baxtiyrov, R., & Botirova, D. (2023). KICHIK MAKTAB YOSHIDA MULOQOTCHANLIK ORQALI AXLOQIY FAZILATLARNI RIVOJLANTIRISH. Журнал Педагогики и психологии в современном образовании, 3(2).
- Jabborov, K. H., Kamalova, S. R., & Botirova, D. B. PSYCHOLOGICAL AND PEDAGOGICAL FACTORS IN IMPROVING THE QUALITY OF EDUCATION.
- Brown, J.D. (2013). New ways of classroom assessment. Alexandria, VA : Teachers of English to Speakers of Other Languages.
- Abdullaeva, S. K., Shayusupova, A. A., Jabborov, K. H., Kamalova, S. R., & Botirova, D. B. PSYCHOLOGICAL AND PEDAGOGICAL FACTORS IN IMPROVING THE QUALITY OF EDUCATION.
- Camilleri, M. A., & Camilleri, A. C. (2017). Digital learning resources and ubiquitous technologies in education. Technology, Knowledge and Learning, 22(1), 65–82.
- Mirametova, N. P., Azilova, U., Abdullaev, Q., & Kamalova, S. An International Multidisciplinary Research Journal. An International Multidisciplinary Research Journal.
- Miller, M.D. (2014). Minds online : Teaching effectively with technology. Cambridge, Massachusetts : Harvard University Press.
- Abdullaeva, S. K., Shayusupova, A. A., Jabborov, K. H., Kamalova, S. R., & Botirova, D. B. PSYCHOLOGICAL AND PEDAGOGICAL FACTORS IN IMPROVING THE QUALITY OF EDUCATION.
- Nikirk, M. (2012). Teaching millennial students. Education Digest, 77(9), 41–44.
- Kamalova, S. R. (2022). Improving The Quality of Education in Preschool Educational Organizations. Eurasian Journal of Learning and Academic Teaching, 4, 231-233.
- Stankić, R., Jovanović-Gavrilović, B., & Soldić-Aleksić, J. (2018). Information and communication technologies in education as a stimulus to economic development. EkonomskiHorizonti, 20(1), 61–73.
- Хайдарова, Р. А. (2021). KREDIT-MODUL TIZIMINI JORIY ETISHDA RIVOJLANGAN MAMLAKATLAR TAJRIBASI: Xaydarova Ra'no Anvarovna, Toshkent davlat sharqshunoslik universiteti pedagogika va psixologiya kafedrası kata o'qituvchisi. Образование и инновационные исследования международный научно-методический журнал, (5).
- Stewart, K. (2009). Lessons from teaching millennials. College Teaching, 57(2), 111–117
- Abdullaeva, S. K., Shayusupova, A. A., Jabborov, K. H., Kamalova, S. R., & Botirova, D. B. PSYCHOLOGICAL AND PEDAGOGICAL FACTORS IN IMPROVING THE QUALITY OF EDUCATION.