

Effective Use of Smart Educational Technologies in the Educational System

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Abstract: This article identifies the priorities for the development of the educational process based on the application of Smart educational technologies in the educational system and the analysis of their possibilities.

Keywords: Electronic government, electronic home, electronic commerce, electronic education, smart education, Smart technologies, SMART-board, SMART-screen.

By the 21st century, humanity is rapidly moving towards the formation of an open information society that provides equal access to information for everyone. Elements of digital existence, such as e-government, e-home, e-commerce, e-education, have entered our lives and become commonplace. Now humanity aims to use electronic resources not only as a source of information, but intelligently in an interactive environment. This requires using the opportunities of rapidly updated information and communication technologies at the level of communication, processing information and, in some sense, forcing people to think in the place of a person. The creation of such intelligent, human-communicating and educational electronic resources is a very urgent and difficult task, which requires the pooling of the most qualified specialists from around the world to create it. One of the significant steps taken in this direction is the Smart education project, which has started to be implemented worldwide in the field of education.

Smart education (or smart education) is a flexible and individualized new global educational technology implemented in an interactive virtual environment with the help of open information resources. Its main feature is its implementation on a global scale and the creation of equal access to information and broad education opportunities for everyone.

Smart education educational environment, in turn, requires its participants to update and integrate the entire educational process, used methods and technologies. For the same purpose, the countries of the European Union are on the way to bring their education systems to the same standard and are encouraging other countries of the world to do the same. The project of the Single European University, which is recognized as the environment of future education, is one of the important steps in this direction.

Yesterday, the only source of education was the teacher, and the student came to the classroom for education and interacted with the teacher face-to-face, or read a book and asks the teacher what he did not understand. had to. Today, a student who has mastered information and communication technologies has the opportunity to receive knowledge not only from the teacher in the classroom, but also from other active sources of knowledge on the Internet. At the same time, the currently used pedagogical and information communication technologies of education are changing the role of the

teacher in the educational process. The role of the teacher is not only a source of knowledge, but a guide to learning and a manager of this process.

In this case, the use of interactive technologies increases the role of students themselves as a source of knowledge transfer and formation of new ones. In addition, in recent years, students have occupied social networks such as Twitter and Facebook, formed their own associations for various interests, in particular, education, and are actively communicating, that is, widely communication, the creation of an educational environment increases the interest in this educational system.

Smart education educational environment tools are also changing day by day. Now the possibility of connecting to the Internet from anywhere, the emergence of mobile communication tools, smart boards, smart screens and other smart technical tools of education and their daily improvement are increasing the influence of active learning in the educational environment of Smart education.



This, in turn, creates a need for active, convenient and mobile educational content that has many advantages over the book as a source of knowledge. This can be understood by comparing the volumes of information and educational content in a single book and on the Internet. The rational use of the information, that is, the treasure of knowledge, which is placed on the Internet and is multiplying day by day, the web resources, and the full use of the Internet's facilities and technical capabilities, has become an urgent task of today.

- It would be appropriate to implement the following measures to introduce these Smart technologies into the education system of our country in the future:
- 2020-2025 time allotted for technological update is very short. Therefore, the application of the quick start method, that is, the study of the requirements of the Smart education educational environment and the acceleration of its introduction into the education system of our country;
- to create electronic resources from various subjects in our republic in accordance with world standards, in a coordinated and systematic manner and, as far as possible, in cooperation with other countries, to create them in accordance with the general educational environment (today, the language problem is not on the agenda, because it is a solved problem) ;
- without re-creating other open resources created around the world, translating and adapting the most appropriate of them and introducing them into the educational process;
- to accelerate the provision of educational institutions with the technical means of the Smart education educational environment. Modern society is an information society characterized by the development of computer technologies and means of communication, which makes the surrounding objects and devices increasingly "smart", making life more comfortable, safe and interesting.

SMART (intelligent) - the emergence of society will manifest itself on a global scale.



Today, a number of other countries have begun to develop SMART-education. The model of SMART-society implies the creation of an intelligent, high-tech, human-friendly environment with the help of modern information and organizational systems. More and more, a person acquires new knowledge, and he will not be able to use this knowledge without information technologies. One of the main goals of education is to achieve quality education by forming a modern education system based on SMART technologies.

SMART-education includes the implementation of the educational process by using SMART-technologies. In the future, SMART-education should create an opportunity to use the global information society to meet educational needs and interests.



The main principles of SMART education include:

1. Use of up-to-date information in solving educational problems in educational programs: the speed and volume of the flow of information in education related to any professional activity is growing at a rapid pace. Training materials should be supplemented with real-time information.
2. Organization of student's independent learning, research and project activities. This principle is of primary importance in students' creative research in solving problems, independent information and scientific research.
3. Implementation of the educational process in a wide educational environment. The educational environment should not be limited by the territory of the educational institution or the boundaries of the distance education system. The educational process should be continuous.
4. Flexible educational directions and individualization of education - focus on the individual. The diversity of educational activities requires providing students with wide opportunities for teaching educational programs and courses, using equipment in the educational process, their health care opportunities, and material and social conditions.

SMART education (smart education) is a concept that includes comprehensive modernization of all educational processes, as well as the methods and technologies used in these processes. The concept of smart education in the field of education leads to the emergence of technologies such as SMART-board, SMART-screen and access to the Internet from anywhere. Each of these technologies requires new ways to develop, deliver, and update content. Training can be done not only in the classroom, but also at home, in museums, cafes, public places. The main element that connects the learning process is the active learning content, based on which a unified repositories are created that allow removing temporal and spatial frames.

In the educational practice of schoolchildren, mobile technologies can be used in the following areas:

- ✓ Obtaining information from Internet encyclopedias;
- ✓ search for necessary information;
- ✓ translating words or phrases through a translator;
- ✓ visualization of information;
- ✓ watching video lectures;
- ✓ Take a test online or answer questionnaire questions on the Internet;
- ✓ carrying out various laboratory work and experiments.

The use of new technologies with the suffix "smart" alone does not define all the characteristics of a new type of education. If we analyze the various technological solutions corresponding to intelligence in the field of education, we take into account SMART technologies: smart-boards, smart-tutorials, smart-projectors, interactive and communicative materials. software for creating and distributing educational materials. In the segment of SMART education, a number of other technologies are used, first of all, Social Media - social media and Data Mining - various forms of data transfer. Facebook social services, Google services and tools, Wiki website, podcasts, blogs, YouTube video hosting, cloud technologies for distributing audio files or videos on the Internet - all these can be used for education. Blogs have become a good addition to education as a means of feedback between teachers and students. You can upload and show video lectures on YouTube. You can make the learning process flexible and interesting using Google services.

Teachers use these technologies to communicate with each other and with their students' parents, to share professional experience, to enrich the content of classes with new materials, to increase students' interest in learning, and for professional development. can use. The teacher and students become equal participants in the educational process: each of them has the opportunity to get the necessary information, each of them completes the conclusion of the general research with the results of their work.

It has become the norm to conduct training sessions using multimedia presentations in software packages such as Microsoft Power Point or Adobe Flash. But along with the usual presentation technologies (Microsoft Power Point, Adobe Flash), so-called interactive technologies have appeared, which allow you to abandon the presentation of a slide show.

There are several technologies that make the whiteboard interactive. One of these technologies is touch-resistor, and the other is DViT technology from SMART Technologies. They use special digital video cameras that are used in the corners of the screen. In addition, with the help of a special device, any plasma panels can be turned into an interactive whiteboard. When working on interactive whiteboards, students' concentration improves, learning materials are quickly mastered, and as a result,

each student's mastery of subjects increases. Smart Classroom Suite is a program designed for interactive learning.

There are tons of apps for every subject. For example, it is enough to enter the search name of one subject in the Google Play Market, and the monitor will display English and Russian mobile applications, literature, mathematics, algebra, geometry, physics, chemistry, biology, physical education. a list of applications will appear. Let's take a look at some examples of mobile applications that you will need for studying science. The student can use them independently and get information about subjects.

In conclusion, it can be said that the spread of SMART-education is primarily due to the improvement of Internet technologies, secondly, the development of wireless technologies such as Wi-Fi, 3G, 4G, and thirdly, the wide spread of online educational resources on the Internet. Programs for creating interactive posters and illustrations on any topic from any subject: "LearningApps", "Thinglink"; mental cards - "WiseMapping", word cloud clusters - "Word It Out!" and others. The equipment listed can be installed using the "SMART tools" application.

RECOMMENDED REFERENCES

1. Abduqodirov A.A., Ishmukhamedov R., Pardaev A. Innovative technologies in education (practical recommendations for pedagogues-teachers of educational institutions).-T.: Iste'dod, 2008.-180 pages.
2. Ishmuhamedov.R., Yuldashev M. Innovative pedagogical technologies in education and training.- T.: —Nihol publishing house, 2019, 278 pages.
3. Khodjaev B.Kh., Texts of lectures from the module of innovative educational technologies.- T.:2021
4. Marasulova Z.A. Ta'lim tizimida raqamli texnologiyalardan foydalanish samaradorligining ustuvor yo'nalishlari.// "NamDU Imiy axborotnomasi" 2023, №1, 464-468-б.
5. Marasulova Z.A. Z.S.Ahmedova. Smart ta'limi texnologiyalaridan ta'lim tizimida samarali foydalanish.// "NamDU Imiy axborotnomasi" 2023, №3, 364-368-б.