

УДК 811.111:378.317.52

Navoyeva A., Bankovskaya I.

The Use of Modern Technologies in Education

Belarusian National Technical University
Minsk, Belarus

Nowadays it is very difficult, even almost impossible to imagine our life without various modern technologies, gadgets and electronic devices. They have become an integral part of people's lives and are used in various human activities, in all spheres of human life, such as economic, political, social, and spiritual. Technological progress continues to develop, and every day we can observe new products and improvements in electronic technology, new discoveries in the information sphere, and the great influence of information and Internet technologies in people's lives. Sometimes it is even unthinkable to realize that in the past, people lived without electronic technologies and access to them. If we turn to the scientific point of view, information technologies represent the entire accumulated experience of mankind in a universal form suitable for practical use. They are used in science, business, even industry and materials production, medicine, architecture, modeling, and many other areas of human activity.

Modern technologies have contributed to the development of science, greatly facilitating design and computing activities. In medicine, doctors can use computers to create virtual models of the development of various diseases. In addition, new medications are being developed based on computer-generated databases. In business technology, it has made it possible to globalize business operations. Now almost everyone can do business almost anywhere, from any room of their home [2].

And these are just some of the few examples of how modern technologies have dramatically changed people's lives in certain areas. However, in order for a person to become a highly qualified specialist in their chosen field, they need to go through several stages of training: school, university, and various advanced training courses...And the question asked is: how do modern technologies affect the educational process?

Technology in education is not just the use of digital devices – it is something that facilitates interaction between the teacher and the student, which increases the effectiveness, and therefore the quality of the educational process. The desire to learn and work among the younger generation is at an all-time low, and teachers compete with countless entertainment in phones, tablets and laptops. Technologies can be seen as the culprit of many educational problems, and can be used to improve interaction and efficiency.

Currently, according to statistics, the following educational software tools are most often used in practice in many educational institutions in Belarus.

1) Multimedia whiteboards, projectors, televisions, computers, and other items of equipment that provide the ability to manage all resources from the teacher's usual workplace: from viewing individual images or presentations to calling educational software products and Internet resources. With modern technologies in hand, the teacher can manage both educational process as a whole and individual information resources [1].

2) An electronic textbook is a learning system that is based on didactic and methodological materials about the subject. The electronic textbook is suitable for both self-study of the subject and as a basis for the presentation of the lecture subject. The electronic textbook contains all the topics that are provided in the curriculum. There is also a block where the student can check and consolidate their knowledge. The main advantage of this type of textbooks is its graphic representation of the

subject and hyperlinks, i.e. the training material has links to other materials. Multimedia is another advantage of an electronic textbook. The use of sound files, animated drawings, and videos can improve the quality of learning.

3) Training programs, webinars are tutorials that are used by students when studying subjects on their own. Training programs allow you to regulate educational activities, and improve the quality of the subject being learned. Developed training programs must be based on the curriculum and meet all requirements of their content. This type of programs is used by students to expand their horizons and introduce new subjects.

4) The Internet is a worldwide system for accessing any file. Thanks to the use of the Internet, the student can find all the necessary information for the question that interests him. The advantages of the Internet is the ability to find out any information, regardless of where you are.

5) Distance education – the teacher's work with students at a distance that displays all the components of the educational process. Distance education allows students to get all the necessary knowledge remotely from the main place of study. This is very convenient, since there are a certain number of people who can't attend educational institutions for health reasons. And in the distance learning system, they can get their education without leaving home [1].

Thus, we can make the following conclusions:

1) the educational process with the participation of a teacher becomes the most effective with the using of modern technologies. At the same time, by minimizing flaws and using improved technology models, the quality of education will significantly improve: the teaching process is activated, students ' interest in the discipline being studied is increased, the efficiency of the educational process is stimulated, and the

desired depth of perception of the educational material is achieved;

2) given the fact that there are currently rapid changes in modern technologies in the educational system, this will inevitably lead to the fact that the current expensive technologies / technologies that are at the development stage will become an integral addition, an element of a multi-faceted educational environment, the main indicator of the effectiveness will be that students will better absorb and practice all the necessary knowledge and skills.

References:

1. Pros and cons of classroom learning technology [Electronic resource]. – Mode of access: <https://tophat.com/blog/6-pros-cons-technology-classroom/>. – Date of access: 01.04.2020.
2. Top 6 educational technology trends [Electronic resource]. – Mode of access: <https://www.google.com/amp/s/educational-%20technology-trends>. – Date of access: 29.03.2020.