MODERN TECHNOLOGIES IN PHYSICAL EDUCATION

Irmatov Fozil Muminovich
Jizzakh State Pedagogical University, Jizzakh, Uzbekistan
E-mail: irmatov-fozil-84@mail.ru

ABSTRACT

Accelerated development of science and production, along with the economic upheaval of the society, provides a fundamental change in the content of social relations. In addition, a great deal of attention is paid to the introduction of a technological approach to social issues, including in the economic field.

Keywords: Innovation, Effective, personality, communication technologies.

The use of information and communication technologies in modeling physical processes is mainly carried out in two different ways. The first condition is that these are technical equipment, and the second condition is the availability of special software. Providing technical equipment: computers, network devices, high-speed internet networks, equipment and so on.

Software: Includes software that uses existing devices and includes a suite of software. In recent years, he has come to terms with the Elearning (e-learning), an electronic from of education, through the Internet or Intranet network used in leading universities in the world. E-learning is a broad concept that describes the different aspects of education based on information and communication technologies.

Among the many sources of e-learning organization, PhET, Crocodile Physics. PhET is a program developed by the University of Colorado. It features more than 100 shows on physics, chemistry, biology and other subjects. The PhET project is designed to provide a comprehensive set of interactive research models designed to improve the quality of the learning process, and they are enriched. All models are interactive, have the necessary equipment and are quickly understood and mastered by students.

The site is open and accessible from http://phet.colorado.edu, as well as offlin variant. From this program the students of the Jizzakh State Pedagogical University are being used as demonstration in physics class laboratory classes, practical lessons and lecture classes. It is particularly striking that these simulators are not less competitive in physical experiments and all live physical experiences.

In this simulator, the student (or reader) can not only imagine the magnetic field, but also observe and experiment with his autumn. The ability to observe the physical process of the variable current and, most importantly, to master is easily.

In the following simulation, it is easy for a student (or reader) to imagine the electrostatic charge by the fixed charge. Learns to calculate the physical magnitude of the electrostatic field.

Crocodile Physics is a powerful simulator, a program that simulates physical processes and allows you to create and track experiments on physics mechanics, electrical chains, optics and waveguides. This program can organize interactive whiteboards lessons, as well as be used on a personal computer as an independent work. This powerful program enables you to track physical events, experiment, and model different complexity processes.

This software has been improved by Crocodile Clips Ltd since 1994. The program can be widely used in solving the problem, organizing virtual laboratory work and demonstration experiences. This program has led to the right revolutionary change in the education system. The program works with all parts of physics, allowing deep study of the processes.

Passing through the slides prepared by using the projector lecture lessons on the slide show program is an easy way to use the lesson effectively and achieve the purpose of the course. There are also several advantages of organizing lessons such as:

1. Effective use of lesson
2. Achieving the intended goal in the lesson
3. The animation of the physical processes that the student can not imagine (or video) to show in the way.
4. Immersion demonstrations to deeper understanding of the subject
5. It is possible to carry out virtual laboratory work anytime and anywhere
6. Ability to get rid of the unity of the lessons.

If independent learning and independent work are based on Power point programs, students will learn more about computer technology, because in the future we will not be able to imagine human development without computer technology.

REFERENCES:

1. Physics for Scientists and Engginees. Sixth edition. Paul A. Tipler. Gene Moscwa 2008.
2. Fundamentals of Physics hallidyy&Resnics 10 th edition. Jearl walker. Cleveland State University.
3. Physics for Scientists and Engineers Raymond A. Serway-Emeritus, James Madison University John W. Jemett-California State Polytechnic University, Pomona Thomson Brooks/Cole 2004, 6th Edition.
4. Physics principles with applications Douglas C.Giancoldi. 2014

5. Kikoin A.K., Kikoin I.K. Umumiy fizika kursi. Molekulyar fizika. O‘qituvchi. Toshkent-2004.
6. Karabayeva M.A. Molekulyar fizika. Toshkent. Universitet-2014.
1. www.ziyonet.uz
2. www.phet.colorado.edu
3. www.elearning.zn.uz
4. www.edx.uz
5. www.my.estudy.uz
6. www.bilim.uz