



TA'LIMDA ZAMONAVIY AXBOROT TEXNOLOGIYALARI

Xalqaro ilmiy-amaliy anjumani materiallari
(2021 yil 23-aprel)



MODERN INFORMATION TECHNOLOGIES IN EDUCATION

Proceedings of the international scientific-practical conference

(April 23, 2021)

СОВРЕМЕННЫЕ ИНФОРМАЦИОННЫЕ ТЕХНОЛОГИИ В ОБРАЗОВАНИИ

Материалы международной научно-практической конференции

(23-апрель 2021 г)

**O‘ZBEKISTON RESPUBLIKASI
OLIV VA O‘RTA MAXSUS TA’LIM VAZIRLIGI**

**Abdulla Qodiriy nomidagi
JIZZAX DAVLAT PEDAGOGIKA INSTITUTI**

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Так как экологические исследования связаны с конкретными областями промышленности, и т.д. и т.д. необходимо определить все параметры, влияющие факторы, размерности, изменений, влияющие на экологию.

Для этого необходимо:

- определить математическую модель исследуемого объекта;
- определить математические методы решений;
- построить алгоритмы проводимых исследований;
- произвести расчеты и получить результаты исследований.

Резюме: Цель экологического образования является формирование по этапному процессу с накоплением необходимого объема знаний о взаимоотношениях общества и природы, где каждый человек должен владеть минимумом знаний по экологии.

В формировании экологического образования первостепенное значение имеет усвоение принципов охраны природы и рационального природопользования.

На пути к экологической образованности важно определить у человека уровень экологических знаний, а также знание источников загрязнений окружающей среды. Эти знания необходимы для общей ориентации в экологической обстановке, так и для включения в практическую деятельность по устранению действий конкретных факторов, носящих ущерб природе и здоровью людей.

У нас в Средней Азии тоже ведутся работы в области экологического образования, потому что во всем мире возникают\появляются все новые проблемы, а у нас проблема мирового масштаба как высыхание Аральского моря, выбросы производства алюминия, использование водных ресурсов, сбережение питьевых вод и т. д. и это требует формирования и быстрого внедрения в учебный процесс экологического образования.

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TEACHING PROCESS OF THE ORGANIZATION OF THE PRIMARY SCHOOL THROUGH MULTIMEDIA AND TECHNICAL MEANS - A GUARANTEE OF EFFECTIVE TEACHING

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Annotation. *This article is discussed how to achieve lesson effectiveness through the use of multimedia and technology in the teaching of primary school students. The development of pedagogical skills is also considered based on the curriculum and syllabus. Moreover, there are also several ways to organize a lesson on the basis of multimedia.*

Keywords: multimedia, enrichment of thinking, knowledge, internet materials, computers, handouts.

One of the main tasks of the national training program is the didactic support of advanced pedagogical technologies, modern educational process. At the same time, the widespread use of information technology in the educational process allows students to learn independently, to think freely. In this case, President Sh.M.Mirziyoyev said, “The main criterion of educational reform is the spiritual development of the younger generation, who are spiritually mature, physically healthy, well-developed.”

Today, the Government of the Republic of Uzbekistan and the Ministry of Education set high standards for the primary education system. In order to meet these requirements, there must be highly educated, truly educated teachers in the primary grades. The primary school teacher must incorporate modern knowledge and the basics of national education in the educational process. “[1]”

The effectiveness of a lesson, which is the main form of the educational process, depends on how it is organized.

What exactly is a lesson?

Lesson is a process carried out by means of various methods, tools, ways, tactics, techniques, purposefully polished through pedagogical skills, which can meet all the principles of didactics, based on a specific curriculum and plan on the basis of the established the standard of organizing lesson.

The modern lesson is a full coverage of the topic through innovative technologies and ICT (Information Communication Technology) tools, using all the modern knowledge and capabilities of the teacher. The modern teacher must have a thorough knowledge of advanced pedagogical technologies in the educational process, be able to analyze and put them into practice.

The effective use of pedagogical technologies is a process that ensures that students are taught to read, learn and think independently:

- ✓ Pedagogical technology is a guarantee of full mastery of standards, quality level.
- ✓ Pedagogical technology is a project of the educational process that can be developed by one person or a creative group, which can be used by all teachers.
- ✓ Students are not taught - they are taught to read independently.
- ✓ Knowledge is not given to the student in a ready - made way, one is taught to be able to get knowledge independently from sources, to think, to stand in an independent position.
- ✓ All students are guaranteed to master their skills at the level of their needs.[2]

Particular emphasis is placed on the use of technical means in modeling the teaching process. Therefore, today it is aimed at strengthening the material and technical base of schools, the introduction of advanced pedagogical technologies in the educational process, increasing its effectiveness. Currently, the work on professional development of teachers in the field of information technology is in full swing. Every educator is expected to use computers freely and actively in their professional activities. The IT (Information Technology) training of educators includes several components. One of them is to master the basics of using information and communication technologies and multimedia tools and methods of their application in professional activities.

The term "multimedia" means "using a combination of moving and still pictures, sound, music and words, especially in computers or entertainment ". Multimedia is a set of tools for processing various forms of data. First of all, the e-manual is a demonstration of new educational information, supplementing the content of manuals published in the traditional educational method, animation of visual aids, audiovisual (visual and listening) of the topic. It is also a computer-informational software tool that complements, allows to test the acquired knowledge and skills, in which multimedia capabilities are widely used. This allows for the conscious mastery of primary school students.

The design of the lesson on the basis of multimedia is based on the following:

1. Multimedia lesson plans that cover the whole lesson process.

2. Multimedia lesson plans for partial use in the classroom.

3. Independent educational activities provide students with additional information, videos, audios, useful information in multimedia outside the classroom.

Through multimedia lesson plans designed for use at certain stages of the lesson process, the teacher explains the topic, the student observes, the traditional perception of knowledge, conducts experiments, the acquisition of learning information is controlled by each student. Tests and controls are interactive, fast and convenient. Handouts for the lesson will be printed and used. Tables allow the use of different pedagogical technology methods. So, in this case, the acquired knowledge is checked, strengthened, generalized.

As a result of the observation and analysis of media lessons organized by experts in the primary grades using these multimedia applications:

- qualitative changes in the content, methods and organizational forms of teaching;
- serves to develop the individual abilities of primary school students, their personality, enrich their thinking, increase their knowledge;
- increased interest of students in the topic;
- they learn this or that material faster;
- every student in the class becomes an active participant in learning process;
- the formation of practical thinking and imagination in students;
- serves to raise the information culture;
- the opportunity to provide students with theoretical knowledge in learning process, as well as to demonstrate the teaching materials using a high level of modern technology;
- interdisciplinary connection;
- it has been found that it helps them to master the topics.

In short, modern modeling of the teaching process:

- ✓ The ease of explaining the learning process and the effectiveness of the level of mastery.
- ✓ Develops students' ability to work independently.
- ✓ They form the basis for the initial stage of Internet material sorting skills.
- ✓ The student is able to defend his / her ideas in front of the team.

That is why today teachers must constantly work on oneself, live in a time of rapid exchange of information, always feel one's responsibility.

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ПРИОБРЕТЕНИЕ ЗНАНИЙ С ПОМОЩЬЮ ИСККУСТЕВЕННОГО ИНТЕЛЛЕКТА

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Аннотация: Одним из подсистем управления качеством образовательных систем является внедрение в учебный процесс разных электронных приборов и элементов искусственного интеллекта, как видео глаз, манипулятор для приобретения знаний с

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