Problems of Computer Technology Integration With Drawing

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ABSTRACT

In the educational system, scientific and methodological literature, advanced pedagogical experiments devoted to the use of modern computer technologies, as well as the application of computer technologies in the teaching of drawing geometry and engineering graphics were studied and analyzed from a scientific, pedagogical and psychological point of view. Drawing is the application of computer technology in the educational process, a tool that allows students to increase their level of mastering, and advanced pedagogical experiments are based on the relevance of the subject.

Key words: *Education, Computer Technology, teaching, scientific,drawing, application, student, motor, advanced pedagogical, topical.*

I.Introduction

The purpose, content, forms, methods and tools of the educational process are traditional categories that are used to analyze educational processes in pedagogy. The same categories arise as the subject of pedagogical activity, which constitutes the educational process in a particular science, specialty or specialty. The legislative and criteria of pedagogical and educational activity, which purposefully orientate the mentioned pedagogical categories, serve as a systematizing factor. Over the long periods, the size of the pedagogical categories indicated has become sufficient to achieve the objectives of society at the level of talabi. It is known that the qualifications and skills that must be acquired in knowledge become more complex. This process was analyzed by scientists and developed certain rules. Encyclopedic scientist Abu Rayhon Beruni is one of the scientists who studied the educational process in depth. He expressed such thoughts about the ways and methods of acquiring scientific knowledge: in the educational process, the educator was guided by the following laws::

– not boring the educator;

- justification of diversity in providing knowledge;

–it is necessary to adhere to consistency, consistency.

Beruni also notes that an interesting, mostly visual statement of new topics will give effective results. Abu Ali Ibn Sina notes the need to educate individuals in acquiring knowledge in an educational institution and emphasizes the need to adhere to the following aspects in education:

– not to keep the student busy with the book at once while giving knowledge;

– giving knowledge by going from simple to complex in education;

– being a team in teaching and paying attention to teaching in an educational institution;

– to take into account the inclination, interest and ability of students in the provision of knowledge;

– to carry out training with the addition of physical exercises.

These rules, developed by them, began to occupy a solid place in education. Also, the quality indicators in the educational process, the improvement of the educational process, the further improvement of educational programs, the implementation of modern pedagogical technologies in teaching, the fact that certain tasks are defined, which consist in the wide use of computer technologies, the use of computer technologies in teaching and the introduction into the educational system, the creation of modern e-learning tools and the application of professional education experiences of developed countries to the educational system of our country on the basis of the formation of knowledge and skills of students is one of the actual tasks facing professional education.

Today, it is required to study the requirements of modern pedagogical practice, develop the theoretical and practical basis for the use of existing teaching technology.

The reasoning about the use of computer in teaching process, the role and importance of instructional technology has also been reflected in the work of a number of pedagogical scholars. For Example, L.V.Lutsevich understands the technology of processing, transmission and dissemination of information in a computer, the creation of computational and programmatic tools of Informatics, when it is called the technology of teaching in a computer medium. M.I.Jidanov interpreted this term in a broader sense. In his opinion, it is the methods of collecting, organizing, storing, processing, transmitting and describing information and the use of a complex of technical means that imposes the human knowledge of the technology of teaching in a computer medium, developing its technical and social process management capabilities. B.I.Mashbits and N.F.Talisman describes the technology of teaching in a computer tool as a set of different types of teaching programs ranging from simple programs that control knowledge to artificial intellekt based learning system. At present, it is thought that the technology of teaching in a computer tool is a didactic process that purposefully creates, transmits, stores and reflects information products (data, knowledge, ideas), the technical environment of teaching which consists of Computer Technology, Information Technology (as a process of teaching) and the application of information technology to reading (as the use of Information Technology in teaching). In most cases, the phrase" computer technology of Education" is replaced by the phrase "Information Technology". This place implies a system that, unlike traditional pedagogical Technologies, is connected to computer networks, programmed, capable of ensuring international relations. This situation is explained by the increase in the importance of computers in the life of the society in recent years, the increase in exteriors in relation to various types of information in all sectors of the national economy. Information technology today serves to increase job productivity in all areas of the society, while in education, to accelerate teaching, to increase productivity.

The very rapid development of computer graphics and the fact that its technical and programming tools are constantly being updated, it is necessary to constantly improve the course, constantly studying new directions in this area. In recent years, there have been very large changes (silks) in this area, that is, 16 million dollars.displays, graphics information (paper part), which can display more than one color and color types (ottenok) - scanners, graphic works; in the field of software tools, however, came into the world of programs that can discover the real computer world.

In addition, changes have also occurred in the minds of society, there is no longer a sphere in which computer graphics are not penetrated.

It takes the bulk of the information through the members of human vision. It will be easy to absorb visual information. This feature of human nature is used in graphical operating systems. The

information in them is described in the form of graphic objects: znachoks (characters), windows and pictures.

All graphic objects of the operating system, as well as all other images, must somehow be created or inserted into the computer. To insert graphic images into the computer, special external devices are used. With them we got acquainted. The most common device is the scanner. At the last moment, the scope of application of digital cameras is also increasing. Their difference from ordinary cameras is that the image is not chemically reduced to a photoplyon, but is recorded in the microcircuits of the camera's memory. From there, information can be transmitted to the computer by cable. Some digital cameras also have the ability to record data to a removable disk as a file. And we know perfectly well that transferring information from a disk to a computer is not so difficult.

In fact, in the processing of graphic information, it is necessary to use the following technologies, that is, after the information is delivered to a specialist, regardless of what area it is, it is required to produce it in accordance with the intended purpose in that area. Otherwise it will remain a clear misunderstanding. It is desirable to present it to students in a modern technological way.

In computer graphics, the image comes in contoured, colored, and toned views. The contoured image is based on lines. And the tone and color images are based on surfaces. Such an image is conditionally called "Photo".

Most of the graphic data extraction devices are designed for image and drawing extraction. All of these devices are designed to manually input contour messages outside the scanning system. They are able to form drawings on the display screen itself, at the same time they also insert drawings into the computer.

One of the modern issues of teaching drawing science is its wide application of computer technology in teaching. It has been theoretically proved that computer graphics programs create favorable opportunities for the rapid mastering of educational materials by students, as well as an important role in increasing the effectiveness of their mastering. It was found that the use of software-pedagogical tools, which are universally convenient for eliminating the problems in the teaching of drawing science, is purposeful.

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