



## **The Importance of using Computer Graphics in Teaching Applied Decorative Arts**

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**Abstract:** *This article talks about the use of computer graphics in the teaching of applied decorative arts and its importance in the educational process of students. It provides information about computer graphics programs and their use in science classes.*

**Keywords:** *Applied decorative art, educational process, modern computer technologies, computer graphics, graphic programs.*

Today, regardless of which of the developed countries of the world, in the field of education, especially from the school age, great importance is being attached to the development of knowledge about art, in particular, visual and practical art. The eleventh year of secondary education in our country and the establishment of educational centers for career guidance, as well as the artistic and aesthetic development of young people studying in academic lyceums, vocational colleges, and higher education institutions. great attention is paid to education.

The science of applied decorative arts is of particular importance in educating the growing young generation to be well-rounded and meet world standards. The stylization of natural elements is of great importance in providing artistic information to young people, which is important in developing their general outlook. Writing composition aims to develop the skills of learning to write notes, drawing, painting and finishing simple patterns.

Studying practical and artistic decorative arts helps young people to stylize the objects around them, to develop artistic thinking, creative ability, to remember to see, to form spatial imagination, to develop an aesthetic attitude towards works of art, love for beauty, practical and issues of composition in decorative art, types of patterns, modern symbols in artistic painting, the role of decorative art in the educational and educational process, composition in practical decorative art, fonts, advertising, announcements, slogans, greetings teaches theoretically by introducing text examples, interior and exterior artistic decoration and serves to develop their aesthetic taste. This, in turn, ensures that the special subjects taught in secondary special, vocational and higher educational institutions are deep and grounded, and pedagogues, scientists, masters and artists are responsible for the hard and at the same time honorable and carries a high responsibility.

The following technical tools are used in the teaching of applied decorative art to students: Examples of world-recognized works of art by representatives of applied art, folk masters, mature Uzbek and foreign masters of fine art, and methodologically perfect reproductive work; organization of classes using modern computer technologies is recommended. It can be said that the effect of using modern computer technologies is especially great. Although the traditional educational process is tried and tested and effective, it can leave a simple and boring impression on students living in the modern world.

As the main goal is to make students more efficient in the educational process and to facilitate their understanding and acceptance processes, we should apply the use of modern technologies in the course of the lesson, regardless of the type of subject. The use of modern computer technologies not only makes the process more convenient for learners, but also makes this process more interesting. Based on the above considerations, modern computer technologies are also used in the teaching of applied decorative arts, and practical art tasks, pattern elements and compositions are created from computer graphics. Drawing using can be applied in the course of the lesson.

Computer graphics programs can be used for this. Computer graphics - visualizing (making "visible") visual information on a graphic display (monitor) screen. In contrast to the method of reflection on photographic paper, film, film, etc., in computer graphics, the image created on the computer is immediately deleted, corrected, can be entered, narrowed or stretched in any direction, zoomed in and out, rotated, moved, changed color and other actions. It is used in decorating books, making pictures and drawings, designing things and making models, creating TV commercials, creating cartoons, creating interesting shots in movies and many other areas.

The concept of computer graphics now includes a wide range of fields, from simple graphic drawing to the creation of realistic images, embellishing them with the help of software, and even the creation of new image-related projects. It provides the opportunity to work in a multimedia environment.

Computer graphics is primarily a widespread software application, that is, computer graphics relies on existing and newly created programs. It is even widely used to decorate the programs themselves. Its development makes it possible to accurately describe (even in motion) how processes take place in real three-dimensional space. Therefore, there are currently such practical software packages that can be used to obtain the result of the solution in the form of a graph, given only the main parameters of the problem under consideration.

Computer graphics plays an important role not only for artists, but also for advertising specialists, for creating web pages, for the reading process, and in other fields. Its use, especially in the field of polygraphy, recently led to the use of highly decorative techniques in the creation of colorful, pictorial literature, educational manuals, and artistic works.

It is possible to enumerate some of the programs working with computer graphics. Including Microsoft Paint, Adobe Photoshop, Adobe Illustrator, Corel Draw, Macromedia and Adobe Freehand, Adobe InDesign, Adobe ImageReady, Macromedia and Adobe Flash, Discreet and Autodesk 3ds Max, Cinema 4d, Alias and Autodesk Maya, Lightwave, Adobe Brush, etc. . Computer graphics work can be done in these programs. Some allow for simple drawing, while others allow for three-dimensional modeling and even four-dimensional modeling.

These graphic programs can also be widely used in the teaching of applied decorative arts, their convenience makes the practical work process of the subject much easier and helps to increase mastery. These graphic programs can depict pattern elements, compositions, from Islamic patterns to geometric and complex pattern types. Graphical programs help to save not only the development process, but also time and money.

The student can easily change the practical work (pattern given as an assignment, pattern element, composition) drawn using graphic programs, it is easy to correct mistakes, it can be painted in any color and easily changed. The main thing is that the quality and condition of practical work does not change over time. This is an easy solution to the main problems students have.

M.V. In Matveeva's opinion, the illustrative function of computer graphics is performed when students learn ready-made graphic, animated and video educational materials. If they acquire knowledge by creating a mathematical model of the studied object, the cognitive function of computer graphics is fulfilled. Illustrative and cognitive functions of computer graphics are conventionally distinguished. On the one hand, even a simple graphic image can cause a new idea to be born in a student or open up new aspects in him. On the other hand, the cognitive function is not always fully realized, for example, when the student reflects only the already known features of the studied object, only the illustrative function is performed.

Graphic programs facilitate the work of not only students, but also professors and teachers. Practical work is often drawn using paper, and practical tasks are given to teachers in this case. Practical tasks of different sizes and dimensions often lose their condition and quality due to improper storage. Thanks to graphic programs, such inconveniences will quickly disappear.

In conclusion, the use of graphic programs creates some convenience for students, improves the process and quality of education. Many conveniences in graphic programs not only arouse interest in students, but also help to conduct training processes more efficiently. Modern technologies serve to create conveniences in our lives, if we can use them appropriately in work or education.

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