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AUTOCAD SOFTWARE AND TECHNOLOGIES FOR USING ITS CAPABILITIES

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ABSTRACT:

Science and technology, production tools and technological processes are almost completely computerized in all developed countries worldwide. Also, in these countries, computers are used in the teaching of all educational subjects of the educational system and in the creation of new techniques and technologies in all production enterprises, based on graphic programs that have great potential for automating design work.

KEY WORDS: calculation - visual (illustrative), computer graphics, operations, computer technologies, AutoCAD graphic program.

In order to prepare experts who meet the requirements of the present time, it is important to attach great importance to the computerization of educational subjects at all levels of the continuous education system, i.e. in schools, vocational colleges and family educational institutions. The ministries of higher and secondary special education are entrusted to OO'YU pedagogic scientists.

This requires today's pedagogues to gain deep knowledge in this field and teach them to young people, especially students.

Since the day of independence, our country has been paying great attention to the reform of the higher education system. World experience shows that the political,



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social and economic status of each country is ensured by its intellectual wealth, i.e. personnel with theoretical knowledge and practical skills {1}. Taking into account that our intellectual wealth is one of the main factors for our future, the National Personnel Training Program and the Law "On Education" were adopted. In the second quality stage of the national stage, "Strengthening of the material, technical and informational base of educational institutions will be continued. The educational process is provided with high-quality educational literature and advanced pedagogical technologies. Informatization of the continuing education system will be carried out. Taking into account the urgency of this problem, the Decree of the President of the Republic of Uzbekistan on "Further development of computerization and introduction of information communication technologies" was announced.

This decree stipulates the introduction of advanced educational systems based on the acquisition and use of modern computer and information technologies in the educational process of schools, vocational colleges, academic lyceums and higher educational institutions. It is known that since 2000, computer graphics has been divided into two types, computational-visual (illustrative) and engineering computer graphics. Most of the educational institutions of our republic have been dealing with its first type. In the teaching of drawing and engineering sciences, the implementation of drawing primitives based on automatic computer design is somehow neglected. It is a pity that most educational institutions do not pay much attention to the use of computer technologies in the teaching of engineering sciences. Therefore, students' mastery and knowledge of engineering computer graphics in higher educational institutions cannot be considered satisfactory. The main reasons for this are:



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1. Technical support of secondary and higher educational institutions, i.e. insufficient provision of computers;

2. Lack of educational literature on engineering computer graphics;

Therefore, this manual can be evaluated as a means of solving the above problems, providing the graphic capabilities of information technology in all educational institutions and professional development institutions for graphic work performed in drawing and specialty subjects.

According to Jakhan's experience, all design work is done by pupils and students, scientific staff and designer-constructors on a computer based on the Auto CAD program, which is one of the modern graphic programs.

The science of "computer graphics" is primarily related to the science of informatics. It is impossible to master computer graphics without knowing a set of simple operations on a computer. So, in the educational system, students should first master the science of informatics. The next requirement comes from the requirement of the studied graphics program. Since the AutoCAD graphic program is related to the creation of drawings, it requires knowledge of specific subjects such as drawing, geometry, drawing geometry, which is considered the theory of drawing science. It is necessary to know simple geometric constructions (division of a circle into equal parts, arc of a circle, diagonal, angle bisector, properties of perpendicularity and parallelism...). Otherwise, it is inappropriate for us to ask the program to perform any action by issuing a set of commands incorrectly. In short, when learning the AutoCAD graphics program, first computer science, then drawing and drawing geometry should be mastered.

Summary



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During the pedagogical practice in the 40th school of Baghdad District, we directly participated in the Informatics classes and got acquainted with the state of teaching computer graphics to students in educational activities. In particular, we were convinced that the innovative methods used in the teaching of various relevant departments of computer graphics in the course of training in this school, the skills of working with technologies and modern software tools can be developed based on the above recommendations and suggestions.

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