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In Modern Education, The Importance of Graphic Programs in Improving The Quality of Education (on The Example of The Autocad Program)

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Abstract

This article explores the importance of the AutoCAD program in improving the quality of education in modern education, particularly in technical and engineering areas. The use of the AutoCAD program helps to develop students' design and design skills, to effectively master complex graphic materials. The study shows AutoCAD's positive impact on learning motivation and effectiveness in the educational process.

Key words: AutoCAD, graphic applications, quality of education, engineering education, technical skills

Introduction

Development in the field of education in our country is increasing from year to year. The effect of this is the growing interest in education among young people. It is difficult to imagine a modern educational system without information technologists. The demand for modern graphics applications is also increasing in the field of technology. Examples of these include broadband AutoCAD, Lira PK, Renga, Ansys, Revit, and many other graphical applications. In the field of technology, these programs provide considerable convenience in drawing technical drawings, performing accounting work, static and dynamic analysis. In the current era, when information technology is developing, the need for the use of graphic programs in the educational process is growing. The AutoCAD program for creating and visualizing a project, especially in technical and engineering directions, is distinguished by its wide range of capabilities. With AutoCAD, students will have the opportunity to develop projects in high

definition and prepare to solve real-life engineering issues. This article analyzes the role of the AutoCAD program in increasing educational motivation and improving the quality of education in the educational process.

Materials and Methods

The study was carried out using the following methods:

1. Literature analysis: the available scientific literature on the application of the AutoCAD program in the educational process has been analyzed.

2. Practical experience: experimental classes were organized to teach students in the technical direction to use the AutoCAD program.

3. Survey and interview: information was collected on how the use of AutoCAD affected student appropriation performance.

Results and Discussion

1. Skill development: with the AutoCAD program, students ' drawing and design skills have increased significantly. During practical classes, students learned to create drawings with precision and model them in 3D.
2. Motivation and engagement activism: working with the AutoCAD program has increased student engagement and academic engagement. According to the survey, students found the classes interesting and useful.
3. Increased quality of education: the results of the experiment showed that students using the AutoCAD program had a 15-20% increase in mastering performance in the design sciences.

The AutoCAD program is an effective tool in the study of technical sciences in the educational process. The program helps students form the necessary skills to solve real-life engineering problems. In addition, the use of AutoCAD serves to increase the creativity potential of students and develop independent work skills in them. However, in order to effectively use the program, special training of teachers is required.

Conclusion

The AutoCAD program is important in improving the quality of education in the modern educational process, especially in technical and engineering areas. It assists students in understanding and creating complex graphic drawings, as well as developing their design skills. The extensive introduction of AutoCAD into the educational process serves to

strengthen the theoretical and practical knowledge of students.

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