

THE EFFICIENCY OF LEARNING TECHNICAL TERMINOLOGY USING DIGITAL TOOLS: AN EXPERIMENTAL STUDY

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Abstract. This article analyzes the effectiveness of mastering technical terminology using digital learning tools based on an experimental study. The widespread introduction of information and communication technologies in the modern educational process is an important factor in developing students' professional competencies. Especially for students studying in technical fields, effective mastering of industry-related terms is an important component of professional activity. During the study, experimental and control groups were formed with the participation of technical school students, and the results of using Quizlet, Kahoot, Google Classroom, and artificial intelligence-based platforms were studied. The data obtained showed that students using digital tools mastered terminological knowledge faster and more effectively than students who were educated using traditional methods. The results of the study confirm that the integration of digital technologies into the process of teaching technical terminology serves to improve the quality of education.

Keywords: digital tools, technical terminology, experimental research, information and communication technologies, Quizlet, Kahoot, artificial intelligence, vocational education, English language, educational effectiveness.

Globalization and digitalization processes are placing new demands on the education system. A modern specialist must have not only theoretical knowledge of his profession, but also a thorough knowledge of technical terminology used internationally. Mastering technical terms is especially important in the formation of professional competencies of students of technical schools and vocational education institutions.

Traditional teaching methods are often based on memorizing terms and cannot provide sufficient interest and motivation for students. Therefore, the use of digital tools is attracting attention as an effective way to master terminological knowledge. Platforms such as Quizlet, Kahoot, Google Classroom, ChatGPT allow for interactive learning of terms.

The main purpose of the study is to determine how the use of digital tools affects the effectiveness of mastering technical terminology and develop practical recommendations based on the results of experiments.

Research methodology

The study was conducted with the participation of 60 students studying in the technical direction of the technical school. Students were divided into two groups:

Experimental group - 30 students;

Control group - 30 students.

In the control group, terminology was taught using traditional methods. In the experimental group, teaching was organized using Quizlet, Kahoot, Google Classroom and artificial intelligence tools.

The study was carried out in three stages:

Initial diagnostics.

Organization of the learning process.

Final evaluation and analysis of results.

The level of students' knowledge was assessed through special tests and practical tasks.

Digital tools have a number of advantages in learning technical terminology.

First, they create visual and interactive presentation opportunities. Students learn the meaning of terms not only through text, but also with the help of pictures, videos and animations.

Second, digital platforms support individualized learning. Each student can complete assignments that are tailored to their level of knowledge.

Third, there is a quick feedback mechanism. Students can immediately see the results of the assignments and correct their mistakes.

Fourth, gamification elements increase learning motivation. Various quizzes and rating systems encourage students to actively participate.

Experimental test results

At the beginning of the study, the knowledge level of both groups was almost the same. According to the results of the initial test, the control group showed an average of 54 percent, and the experimental group - 56 percent.

After a 12-week training process, a final assessment was conducted. According to the results:

Control group - 71 percent;

Experimental group - 88 percent.

Also, students in the experimental group demonstrated high results in the use of technical terms in practical situations. Their performance in understanding and translating professional texts improved significantly.

The survey results showed that 90% of students noted that digital tools made learning terminology interesting and convenient. 85% of students noted that artificial intelligence-based platforms greatly helped them learn new terms independently.

The results of the study showed that digital tools increase the effectiveness of mastering technical terminology. Interactive methods increase student engagement in the lesson and help retain terms in long-term memory.

In particular, electronic cards and Kahoot quizzes on the Quizlet platform served as effective tools for repeating and consolidating terms. Artificial intelligence technologies created a personalized learning environment for students.

However, some problems were also observed. In particular, low internet speed, lack of technical equipment, and some students' lack of sufficient skills in using digital technologies had a certain impact on the educational process.

The results of the experimental test confirmed that the use of digital tools significantly increases the effectiveness of mastering technical terminology. With the help of digital platforms, students master terms faster, develop skills in applying them in practical situations, and have the opportunity to learn independently.

In this regard, it is recommended to widely introduce Quizlet, Kahoot, Google Classroom, and artificial intelligence tools into the teaching process of technical terminology in technical schools. This approach serves to improve the quality of education, increase student motivation, and train competitive specialists.

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