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THE USE OF DIGITAL PEDAGOGICAL TECHNOLOGIES IN TECHNOLOGICAL EDUCATION

M.X. Ikramova
Associate Professor, PhD, Kokand State University
M.O. Ergasheva Student, Kokand State University

Annotatsiya

Mazkur maqolada texnologik ta’lim jarayonida raqamli pedagogik texnologiyalardan foydalanishning ahamiyati, afzalliklari va amaliy imkoniyatlari yoritilgan. Shuningdek, zamonaviy axborot-kommunikatsiya texnologiyalarini texnologiya faniga integratsiya qilish orqali o‘quvchilarning ijodiy fikrlashi, mustaqil ta’lim olish kompetensiyalari hamda kasbiy ko‘nikmalarini rivojlantirish masalalari tahlil qilingan.

Kalit so‘zlar: texnologik ta’lim, raqamli texnologiyalar, pedagogik texnologiyalar, innovatsion ta’lim, kompetensiya, interaktiv metodlar.

Аннотация

В данной статье рассматриваются значение, преимущества и практические возможности использования цифровых педагогических технологий в технологическом образовании. Анализируются вопросы развития творческого мышления учащихся, их профессиональных навыков и компетенций самостоятельного обучения посредством интеграции современных информационно-коммуникационных технологий в образовательный процесс.

Ключевые слова: технологическое образование, цифровые технологии, педагогические технологии, инновационное обучение, компетенции, интерактивные методы.

Annotation

This article discusses the importance, advantages and practical opportunities of using digital pedagogical technologies in technological education. It also analyzes the development of students’ creative thinking, professional skills and independent learning competencies through the integration of modern information and communication technologies into the educational process.

Keywords: technological education, digital technologies, pedagogical technologies, innovative education, competence, interactive methods.

Introduction

Today, digitalization processes are rapidly developing in the global education system. The effective use of information and communication technologies at all levels of education is one of the key factors in improving the quality of the learning process. In particular, the use of digital pedagogical technologies in technological education plays an important role in developing students’ practical knowledge and skills, preparing them for modern professions, and enhancing their creative activities.

Digital pedagogical technologies serve to organize the educational process on an innovative basis, present learning materials in an interactive form, and expand students’ opportunities for independent learning. Therefore, the use of modern digital tools in technological education is considered one of the urgent pedagogical issues.

Main Part

The role of digital pedagogical technologies in technological education

Technological education is aimed at preparing students for labor activities, developing technical thinking, and forming practical skills. In this process, the use of digital pedagogical technologies significantly increases the effectiveness of lessons.

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Digital pedagogical technologies provide the following opportunities:

- presenting educational materials in visual and interactive forms;
- modeling complex technological processes;
- organizing virtual laboratories;
- implementing distance learning;
- supporting students' independent learning activities.

As a result, students are able to connect theoretical knowledge with practical activities.

Advantages of using digital tools

The use of multimedia presentations, electronic textbooks, video lessons, virtual laboratories, and 3D modeling programs in technology lessons increases students' interest in the subject.

With the help of digital technologies:

- the learning process is individualized;
- students' activity increases;
- the level of knowledge acquisition improves;
- creative and critical thinking is developed;
- time is saved.

In addition, modern software provides opportunities for virtual design of technological processes such as clothing design, woodworking, metalworking, and others.

Integration of interactive methods and digital technologies

Combining interactive methods with digital technologies in technological education further increases the effectiveness of teaching. For example:

- "Brainstorming";
- "Cluster";
- "Case study";
- "Project method";
- "Blended Learning";
- "Flipped Classroom".

When these methods are used together with digital platforms, students become active participants in the learning process.

For instance, tasks, assessment, and feedback can be organized through platforms such as Google Classroom, Moodle, and Microsoft Teams.

Development of students' competencies

Digital pedagogical technologies in technological education help develop the following competencies:

- information management competence;
- communicative competence;
- professional competence;
- problem-solving competence;
- creative competence.

Such an approach enables students to become specialists who meet the requirements of the modern labor market.

Conclusion

The use of digital pedagogical technologies in technological education is one of the key factors in improving the quality of education. Digital tools ensure interactivity, effectiveness, and practical orientation of lessons. As a result, students' independent thinking, creative approach, and professional competencies are developed.

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In the future, it will be important to further expand the use of digital technologies in the technological education system, develop teachers' digital competencies, and improve the use of modern educational platforms.

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