TECHNOLOGY AND EDUCATION

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ABSTRACT

The new century is an era of active development of science and technology. Modern society lives at a rapid pace of change, witnessing successive technological breakthroughs affecting our daily lives. Compared to the primitive era, the way people live in modern times is significantly different, and these changes can be partly attributed to progress in science and technology. The impact of science and technology is felt in various spheres of human life, including the field of education.

This article describes the essence of using innovative pedagogical technologies in education and its role and importance in improving the quality of education. Also, this article discusses the effectiveness of using innovative pedagogical technologies in the educational process and offers suggestions for a new approach to the educational process in higher education institutions.

Key words: innovation, pedagogical technology, quality of education, IT specialists, innovative approach.

INTRODUCTION

The future of education has arrived, with technology revolutionizing the learning landscape within educational institutions.

Students now have access to a myriad of possibilities. The conventional method of teaching and learning, predominantly characterized by passivity, is being supplanted by a more engaging and dynamic process facilitated by technology.

At present, educational technology is not merely a supplementary tool; rather, it is recognized as an innovative system that significantly contributes to the evolution of the educational process, reshaping its organizational structures, methods, and content. Consequently, this has an impact on the pedagogical perspectives of both educators and students.

Pedagogical technology focuses on examining the challenges associated with the implementation of contemporary pedagogical methods in education and training. It aims to enhance the efficiency of the educational process by adopting a technological approach.[1]

Innovative education involves the application of technologies termed as innovative educational technologies or educational innovations. When structuring a lesson around innovative technologies, educators have the option to utilize diverse technical tools such as computers, projectors, electronic boards, etc., and deliver lessons through interactive methods. The greater the infusion of innovations into teaching practices, the more enriched the content becomes. It's essential to

acknowledge that concepts related to innovative technologies and interactive teaching methods are dynamic and lack a fixed or perfected form.

Innovative pedagogical technology represents a contemporary framework for structuring the educational process, guaranteeing the requisite quality of education, and aligning with the demands of rapid scientific and technological advancements. Its objective is to enhance educational formats through the integration of both technical and human resources. It constitutes a systematic approach to the creation and implementation of these elements working collaboratively. The incorporation of innovative pedagogical technologies into the educational sphere is a response to the current needs of the era.[2]

Within the realm of education, instructing through novel innovative methods and technologies, utilizing state-of-the-art equipment in laboratory spaces for practical training, and offering insights into the latest developments within a particular field, such as chemistry, draws inspiration from global experiences. This approach encourages students to pursue education with an innovative mindset, substantiated by real-world examples.

In designing a lesson centered on innovative technologies, instructors have the flexibility to employ various technical instruments like computers, projectors, electronic boards, etc., while delivering content through interactive methods. The greater the infusion of innovative approaches into the teacher's practices, the more enriched the educational content becomes. It is important to acknowledge that concepts surrounding innovative technologies and interactive teaching methods are dynamic and lack a fixed or perfected form. Each educator has the autonomy to introduce innovations into education independently. By assimilating fresh insights about the essence of their subject, incorporating information on topics, scientific advancements, and innovations, teachers can create new teaching methods, provide examples, and structure lessons based on this updated knowledge.[3]

It is established that every technology is grounded in educational principles that shape the fresh educational content and are directed towards nurturing the learner's personality while instilling practical skills relevant to specific domains of work and profession. The key participants in the educational process are the teacher and the students, and their cooperative engagement constitutes the collective endeavor that facilitates the thorough absorption of both theoretical and practical knowledge on a particular subject (or foundational aspects of subjects) with minimal exertion of effort and time. This encapsulates the core essence of the process.

In contrast to the systematic development of the educational process, which centers on the active and effective engagement of the teacher, pedagogical technologies designed to activate and expedite learning are oriented towards the learners themselves, fostering their individual and collaborative growth with the teacher. By considering the nature of the educational material, these technologies establish conditions for the

comprehensive mastery of content, aiming to consistently cultivate the activity and curiosity of students throughout their learning journey. Aligned with the principles of pedagogical technology, which is founded on creating educational factors, this approach facilitates swift integration into educational or professional activities. Conversely, tasks that are weak, inadequately comprehended, or poorly defined can result in an inefficient completion of the learning process.

CONCLUSION

In summary, it is imperative to integrate novel technologies into the educational process, stay abreast of these transformations, guarantee high-quality education, and equip students to remain pertinent and competitive.

Implementing innovative approaches in the organization of the learning process, specifically employing modern pedagogical technologies during primary education, proves to be highly efficient within the educational system. This implies that primary education serves as the cornerstone for general secondary education. Establishing a robust foundation during this phase will ease the progression of educational processes in subsequent periods. It is evident that pedagogical technologies implemented during primary education act as the initial stage in shaping the subsequent phases of education.

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