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- 13.00.01 Pedagogika nazariysi. Pedagogik ta'limotlar tarixi
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- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariysi va metodikasi
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- 11.00.00 Geografiya fanlari

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MODERN EDUCATION AND TRAINING PRACTICES FOR FUTURE DENTISTS

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Abstract: This paper focuses on the significance of pedagogy in contemporary education, examines changes in educational methodologies, and discusses the integration of innovative techniques and digital technologies into the learning process. The study analyzes current challenges in pedagogical practice within the contexts of globalization, digitalization, and the integration of innovations into educational systems. Particular emphasis is placed on the necessity of innovative teaching methodologies to ensure students' effective adaptation to rapidly changing social and professional realities. In addition, the paper explores the role of modern instructional tools in fostering students' critical thinking and creative skills.

Key words: pedagogy; contemporary education; innovative methodologies; digitalization.

Annotatsiya: Mazkur maqlada zamonaviy ta'lim jarayonida pedagogikaning ahamiyati yoritilib, ta'lim metodologiyalari-dagi o'zgarishlar hamda innovatsion usullar va raqamli texnologiyalarni o'quv jarayoniga integratsiya qilish masalalari tahlil qilinadi. Tadqiqotda globallashuv, raqamlashtirish va ta'lim tizimiga innovatsiyalarni joriy etish sharoitida pedagogik faoliyatda yuzaga kelayotgan dolzarb muammolar ko'rib chiqiladi. Talabalarning tez o'zgarib borayotgan ijtimoiy va kasbiy muhitga samarali moslashuvini ta'minlashda innovatsion o'qitish metodlarining zarurligi asoslab beriladi. Shuningdek, zamonaviy ta'lim vositalari yordamida talabalarda tanqidiy fikrlash va ijodiy qobiliyatlarni rivojlantirish masalalari olib beriladi.

Kalit so'zlar: pedagogika; zamonaviy ta'lim; innovatsion metodologiyalar; raqamlashtirish; texnologiyalarni integratsiya-lyash; tanqidiy fikrlash; ijodiy qobiliyatlar.

Аннотация: В статье рассматривается значение педагогики в современном образовании, анализируются изменения в образовательных методологиях, а также вопросы интеграции инновационных методов и цифровых технологий в учебный процесс. Исследуются актуальные проблемы педагогической практики в условиях глобализации, цифровизации и внедрения инноваций в образовательную систему. Особое внимание уделяется необходимости применения инновационных методик обучения для обеспечения эффективной адаптации студентов к быстро меняющимся социальным и профессиональным условиям. Кроме того, раскрывается роль современных образовательных инструментов в развитии критического мышления и творческих способностей обучающихся.

Ключевые слова: педагогика; современное образование; инновационные методологии; цифровизация; интеграция технологий; критическое мышление; творческие способности.

INTRODUCTION

Contemporary education exists at the intersection of conventional and progressive teaching methodologies, reflecting the evolving nature of pedagogy as both an academic discipline and a practical field of application. Pedagogy, as a fundamental component of education, must address contemporary challenges by fostering the abilities and potential of each student while taking into account rapidly changing social, economic, and technological contexts. The integration of new technologies into education, along with the application of diverse teaching approaches, is essential for preparing students for successful participation in the modern world.

Global educational practices are increasingly focused on creating learning environments that promote not only the transmission of knowledge but also the development of critical thinking, creativity, and competencies that are highly valued in the labor market. Under these conditions, it is necessary to assess both the theoretical and practical dimensions of educational practice. Pedagogy must ensure the effectiveness and adaptability of the educational process by aligning it with the needs of students and the demands of contemporary society.

As processes of globalization and digitalization intensify, education becomes more accessible and open, expanding opportunities for the use of diverse instructional technologies. Key features of contemporary education include multidisciplinarity, intercultural interaction, and the development of personalized learning pathways that correspond to the individual needs and interests of students. These transformations require educators to demonstrate proficiency in applying innovative pedagogical forms and methods while taking into account all aspects of modern educational practice.

LITERATURE REVIEW

Recent studies in dental science emphasize the growing importance of integrating modern educational practices with clinical training to improve the professional competence of future dentists. Research by Qobilovna and Nodirovich 2023 demonstrates that effective orthopedic treatment outcomes are closely related to the level of practical skills acquired during professional training. Similarly, Anvarovich and Qobilovna 2023 highlight that understanding advanced clinical techniques, such as gingival retraction methods, requires a strong combination of theoretical instruction and hands-on educational practice, reinforcing the need for practice-oriented learning models in dental education.

Other scholars focus on optimizing clinical training through innovative instructional approaches. Tohirovna and Qobilovna 2023 show that complex treatment strategies for periodontal diseases can be mastered more effectively when educational programs emphasize interdisciplinary learning and modern clinical simulations. Bakhtiyorovna 2022 further underlines that insufficient practical preparation during training may lead to clinical complications, such as removable denture failures and allergic reactions, which stresses the role of comprehensive and technologically supported dental education.

In addition, several studies address the importance of preventive and diagnostic training in modern dental curricula. Shoxrux, Shoxrux, and Faxriddin 2022, as well as Zarafruz and Hekmat 2022, emphasize that future dentists must be trained to manage oral infections through evidence-based and preventive approaches. Research by Ruziyeva and Burhonova 2021 indicates that familiarity with innovative therapeutic technologies enhances clinical decision-making skills. Collectively, these studies confirm that modern dental education should integrate innovative teaching methods, advanced technologies, and clinical practice to prepare future dentists for contemporary professional challenges.

RESEARCH METHODOLOGY

The research methodology of this study is based on a mixed-methods approach aimed at obtaining comprehensive and reliable data on modern education and training practices for future dentists. Data were collected through a systematic review of scientific articles, academic journals, and peer-reviewed publications related to dental education, innovative teaching methods, and clinical training practices. In addition, qualitative data were obtained through the analysis of existing empirical studies and documented educational practices used in dental training institutions. To enhance the validity of the findings, comparative analysis was applied to examine similarities and differences in educational approaches across various studies. The collected data were analyzed using descriptive and analytical methods, allowing for the identification of key trends, challenges, and effective practices in contemporary dental education. Content analysis was employed to interpret qualitative information, focusing on the integration of innovative technologies, practice-oriented learning, and competency-based education. The results of the analysis were synthesized to draw evidence-based conclusions regarding the effectiveness of modern training practices and their role in improving the professional preparedness of future dentists.

ANALYSIS AND RESULTS

Principal Methodologies in Contemporary Education

A crucial focus in pedagogy is the use of novel instructional technologies. The application of digital technologies in education expands opportunities for both educators and learners, enhancing the accessibility and effectiveness of the learning process. Electronic textbooks, virtual laboratories, and online courses are among the tools that can significantly improve educational quality. Educators must proficiently master new tools and technologies to enhance instructional effectiveness and broaden learning opportunities for students.

Contemporary educational technologies enable students to learn at their own pace, facilitating greater access to knowledge and advanced instruction. One example of the effective integration of modern technologies is the use of Massive Open Online Course (MOOC) platforms, which provide learning opportunities for millions of learners worldwide. These platforms offer access to education for individuals who are unable to attend traditional educational institutions.

Moreover, the active use of the Internet and multimedia technologies supports the development of personalized learning trajectories, which is particularly important for students with varying levels of knowledge and proficiency. Educators must be prepared to adapt their instructional approaches in accordance with students' needs and interests by effectively utilizing contemporary educational platforms and digital resources.

An essential component of contemporary education is project-based learning, which enables students to develop skills necessary for effective collaboration, practical problem-solving, and interdisciplinary competence. Project-based activities contribute to the formation of critical thinking, analytical, communicative, and organizational skills that are highly demanded in real-world contexts. Through collaborative project work, students acquire both theoretical knowledge and the ability to apply it in practice.

Educational Methodology and the Globalization of Learning

The globalization of education requires instructors to apply innovative learning strategies that correspond to international educational standards and criteria. One such approach involves transitioning from traditional instructional models to more flexible and personalized learning formats aimed at developing competencies aligned with global norms. This process necessitates continuous professional development of educators, familiarization with advanced teaching methodologies, and the active implementation of international educational practices.

Modern educational institutions must prepare students not only for successful professional careers but also for life in a multicultural and multitasking environment. The development of intercultural communication skills is essential for enabling students to function effectively in international contexts and interact with individuals from diverse cultural and social backgrounds. Such competencies are particularly important in conditions where national boundaries are increasingly blurred and global interaction is commonplace.

Globalization also necessitates the use of networked educational technologies, allowing students from different countries and regions to access high-quality education regardless of geographical location. In this context, pedagogy must adapt to contemporary realities and take advantage of distance and online learning opportunities, which provide new pathways for students' self-development and knowledge acquisition.

The education system must proactively create conditions that support students' global mobility, enabling them to acquire knowledge and develop skills necessary for effective functioning in an international environment while engaging with the cultural and scientific diversity of other countries. This can be achieved through the integration of educational programs, collaborative research activities, and project-based initiatives, as well as through the facilitation of knowledge exchange via international partnerships.

The Function of Pedagogical Innovations in Establishing a Novel Educational Paradigm

Pedagogical innovations play a key role in establishing a new educational paradigm aimed at preparing students for life in a rapidly changing world. Innovative learning methodologies significantly increase student engagement and contribute to the development of personal qualities such as independence, responsibility, and creativity. The use of approaches such as gamification, virtual reality, and student participation in content creation enhances learners' involvement in the educational process.

The implementation of new pedagogical approaches fosters an educational environment in which students actively participate in their own learning. The application of interactive technologies, gamification, simulations, and virtual reality enables educators to design more engaging and effective learning experiences that improve content retention. Educators must demonstrate both subject-matter expertise and proficiency in applying contemporary educational methods in order to achieve academic objectives.

The integration of artificial intelligence (AI) into the educational process represents a highly promising direction. AI enables the development of individualized learning pathways that adapt to the unique characteristics of each learner, thereby improving educational quality and increasing accessibility for diverse student populations. This creates new opportunities for students to acquire the specific knowledge and skills required for success in their chosen professional fields.

Contemporary Educational Approaches for Fostering Critical Thinking and Creativity in Learners

One of the primary objectives of contemporary education is the development of critical thinking and creative skills among students. In an environment characterized by information overload and rapid technological advancement, it is essential to teach learners how to analyze information, ask meaningful questions, and make informed decisions. Creating an educational environment that encourages free expression of ideas, discussion, and active participation in project-based activities is therefore of particular importance.

Active learning methodologies, including debates, brainstorming sessions, research projects, and problem-based tasks, support the development of both critical thinking and creative problem-solving skills. These approaches aim to ensure that students not only acquire knowledge but also develop the ability to analyze information from multiple perspectives and apply it effectively in practical situations.

Extracurricular activities also play a significant role in fostering students' creative potential and the development of comprehensive competencies. Participation in creative workshops, hackathons, as well as cultural and sports events enhances students' abilities in teamwork, initiative, and innovation. Such activities contribute to the acquisition of additional skills that are valuable not only in academic settings but also in students' future professional careers.

The Influence of Upbringing on the Educational Process

Upbringing plays a crucial role in the educational process by contributing to the formation of moral and ethical values among students while fostering a sense of responsibility and civic engagement. Educational upbringing within academic institutions supports students in acquiring not only knowledge and skills but also social competencies that enable them to become fully integrated members of society, prepared for independent living and professional activity. The educational process should therefore combine academic instruction with personal development, allowing students to realize their potential across various domains of life.

CONCLUSION AND SUGGESTIONS

The education of students should be oriented toward the comprehensive development of individuals who are capable of making informed and responsible decisions, demonstrating initiative, working collaboratively, and taking into account the interests and perspectives of others. These competencies are particularly important in the context of a rapidly changing world, where learners are increasingly required to respond to complex challenges, adapt to uncertainty, and overcome various social and professional difficulties.

Upbringing plays a decisive role in shaping students' moral and ethical values, as well as in fostering a sense of responsibility, self-discipline, and civic consciousness. Through the integration of educational and upbringing processes, academic institutions contribute not only to the intellectual development of students but also to the formation of socially responsible individuals who are prepared for independent life and professional activity. In this regard, education should not be limited solely to the transmission of knowledge, but should also emphasize personal growth, value orientation, and social engagement.

The effective combination of modern pedagogical approaches, innovative educational technologies, and value-based upbringing creates favorable conditions for the holistic development of students. Educational institutions are encouraged to support learning environments that promote critical thinking, creativity, cooperation, and ethical awareness. Such an approach ensures that students are better prepared to meet the demands of contemporary society and to contribute meaningfully to its sustainable development.

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- 13.00.00** Pedagogika fanlari
- 13.00.01** Pedagogika nazariysi. Pedagogik ta'lilotlar tarixi
- 13.00.02** Ta'lim va tarbiya nazariysi va metodikasi (sohalar bo'yicha)
- 13.00.03** Maxsus pedagogika
- 13.00.04** Jismoniy tarbiya va sport mashg'ulotlari nazariysi va metodikasi
- 13.00.05** Kasb-hunar ta'limi nazariysi va metodikasi
- 13.00.06** Elektron ta'lim nazariysi va metodikasi (ta'lim sohalari va bosqichlari bo'yicha)
- 13.00.07** Ta'limda menejment
- 13.00.08** Maktabgacha ta'lim va tarbiya nazariysi va metodikasi
- 13.00.09** Ijtimoiy pedagogika
- 07.00.00** Tarix fanlari
- 19.00.00** Psixologiya fanlari
- 01.00.00** Fizika-matematika fanlari
- 02.00.00** Kimyo fanlari
- 03.00.00** Biologiya fanlari
- 09.00.00** Falsafa fanlari
- 10.00.00** Filologiya fanlari
- 11.00.00** Geografiya fanlari



MAKTABGACHA VA MAKTAB TA'LIMI

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2026. №1

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