

**EFFECTIVE APPLICATION OF ADVANCED TEACHING METHODS IN MEDICAL EDUCATION****Rahmatullayeva Zuhra Zuhriddinovna**

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**Annotatsiya.** Ushbu maqolada tibbiyot ta'limida ilg'or pedagogik metodlarni qo'llashning nazariy va amaliy jihatlari tahlil qilinadi. Ta'lim jarayoniga innovatsion texnologiyalarni joriy etish orqali talabalarning kasbiy kompetensiyalarini rivojlantirish, mustaqil va tanqidiy fikrlash ko'nikmalarini shakllantirish masalalari yoritilgan. Shuningdek, axborot texnologiyalarining tibbiyot ta'limidagi o'rni va samaradorligi ko'rib chiqiladi.

**Kalit so'zlar.** Ilg'or pedagogik metodlar, tibbiyot ta'limi, innovatsion texnologiyalar, kasbiy kompetensiya, axborot texnologiyalari, interfaol metodlar

**Аннотация.** В данной статье рассматриваются теоретические и практические аспекты применения современных педагогических методов в медицинском образовании. Особое внимание уделяется внедрению инновационных технологий в образовательный процесс, развитию профессиональных компетенций студентов, а также формированию навыков самостоятельного и критического мышления. Кроме того, анализируется роль информационных технологий в повышении эффективности медицинского образования.

**Ключевые слова.** Современные педагогические методы, медицинское образование, инновационные технологии, профессиональные компетенции, информационные технологии, интерактивное обучение

**Abstract.** This article examines the theoretical and practical aspects of applying advanced pedagogical methods in medical education. It focuses on the integration of innovative technologies into the learning process to enhance students' professional competencies and to develop independent and critical thinking skills. Additionally, the study highlights the role of information technologies in improving the effectiveness of medical education.

**Keywords.** Advanced pedagogical methods, medical education, innovative technologies, professional competence, information technology, interactive learning

In recent years, significant attention has been given to improving the quality and effectiveness of personnel training, creating necessary conditions for preparing highly qualified specialists based on state educational standards, and widely introducing innovative pedagogical technologies into the educational process. Special emphasis is placed on developing students' modern professional knowledge and skills. Currently, one of the most in-demand and rapidly developing fields in the education market is nuclear medicine. The importance of training highly competent specialists in this area is reflected in the Resolution of the President of the Republic of Uzbekistan dated October 16, 2019 (No. PQ-4492), which focuses on approving the strategy for developing human resources capacity for the nuclear energy program.

Information technologies (IT) have become an integral part of modern life, and healthcare is no exception. Advanced IT developments contribute significantly to improving the organization of medical services. Many countries have long been actively implementing new technologies in healthcare systems. These include teleconsultations for patients and medical staff, exchange of patient data between institutions, remote monitoring of physiological indicators, and real-time observation of medical procedures. The integration of IT into healthcare promotes a new stage of digital transformation, positively impacting all aspects of the system. In the healthcare sector, information technologies help address several key tasks:

- maintaining patient records in clinical settings;
- monitoring patients' conditions remotely;
- storing and transmitting diagnostic results;
- ensuring the accuracy and effectiveness of prescribed treatments;
- organizing distance learning;
- providing consultations for less experienced medical staff.

In parallel with these developments, continuous efforts are being made to improve the quality of education, introduce modern pedagogical technologies, and enhance students' professional competencies. The aforementioned national strategy also highlights the importance of training specialists in nuclear physics, nuclear medicine, and related fields, particularly for non-energy applications of atomic technologies. From this perspective, introducing a scientifically grounded and socially oriented educational system becomes essential. One of the primary responsibilities of educators within this system is to foster socially active individuals, encourage independent thinking, develop argumentation skills through debates, and teach students to analyze acquired knowledge. In this process, the teacher acts as an organizer and facilitator of learning.

**Methodology.** One of the effective modern pedagogical approaches that ensures the quality of contemporary lessons is the FSMU method. This method is designed to develop students' theoretical, practical, and creative thinking skills. The FSMU method involves engaging students in discussions on a given topic, encouraging them to express their opinions, justify their viewpoints with logical reasoning, support them with relevant examples, and ultimately draw well-founded conclusions. This approach enables students to move from general ideas to specific conclusions, compare and analyze information, and develop independent and creative thinking abilities. Furthermore, it strengthens the integration of theoretical knowledge with practical application through structured analytical exercises.

**Discussion.** The implementation of innovative teaching strategies, combined with digital technologies, creates a dynamic and student-centered learning environment. In such a system, the role of the educator evolves from a traditional lecturer to a facilitator and coordinator of the learning process. This shift enables students to engage more deeply with the material, participate in discussions, and develop essential professional competencies. Furthermore, aligning educational practices with national development strategies ensures that graduates are well-prepared to meet the demands of rapidly advancing fields such as nuclear medicine and healthcare technologies.

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