

INNOVATIVE PEDAGOGICAL TECHNOLOGIES AS A REQUIREMENT OF THE TIME

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Abstract: In the context of globalization and the rapid development of the information society, modern education faces increasing demands to prepare competitive, creative, and independent specialists. Innovative pedagogical technologies have become a crucial requirement of contemporary education, as they enhance the quality of teaching and actively engage learners in the learning process. These technologies include communicative methods, interactive approaches, project-based learning, modular learning, and the use of information and communication technologies.

Keywords: innovative pedagogical technologies, modern education, communicative approach, interactive methods, project-based learning, ICT in education, teacher role, student competencies, education quality, globalization.

The modern era is characterized by rapid technological development, globalization, and the increasing complexity of social and professional demands. In this context, education plays a central role in preparing young people to succeed in their personal, academic, and professional lives. Traditional teaching methods, which often rely on passive knowledge transfer, are no longer sufficient to meet the requirements of the 21st century. Students must be able to think critically, solve complex problems, work collaboratively, and adapt to new technologies. Innovative pedagogical technologies are designed to address these needs by transforming the teaching and learning process into an active, learner-centered, and competency-based experience.

Their implementation fosters critical and creative thinking, improves practical skills, strengthens student motivation, and develops competencies necessary for professional and social life. The role of the teacher shifts from a traditional knowledge provider to a facilitator, guide, and motivator, ensuring students' individual needs are met. Despite challenges such as limited resources and lack of experience, the adoption of innovative pedagogical technologies is essential for advancing the educational system and preparing students for the demands of the modern world.

Innovative pedagogical technologies refer to modern methods, tools, and approaches that aim to increase the effectiveness, efficiency, and engagement of the educational process. They focus on developing not only students' theoretical knowledge but also their practical skills, creativity, communication abilities, and professional competencies. Unlike traditional methods, these technologies encourage students to actively participate in their learning, make decisions, collaborate with peers, and apply knowledge in real-world contexts.

These methods focus on developing students' ability to communicate effectively, express ideas clearly, and work collaboratively. Activities such as group discussions, debates, role-playing, and collaborative projects improve students' communication skills and interpersonal competence.

1. Information and Communication Technologies (ICT)

The use of digital tools, online platforms, educational software, and multimedia resources enhances the learning process. ICT facilitates interactive lessons, virtual collaboration, and access to global information, increasing students' engagement and learning outcomes.



2. **Interactive Teaching Methods.** Methods such as brainstorming, case studies, simulations, and gamified learning actively involve students in problem-solving and critical thinking exercises. These approaches foster creativity, analytical skills, and independent thinking.

3. **Project-Based Learning (PBL).** In PBL, students work on real-life or research-oriented projects over an extended period. This approach develops research skills, teamwork, time management, and problem-solving abilities, preparing students for professional challenges.

4. **Modular Learning Technology.** Modular learning organizes content into structured, manageable units. It allows students to progress at their own pace, systematically master concepts, and integrate theoretical knowledge with practical applications.

5. **Blended and Online Learning.** The combination of traditional face-to-face instruction with online resources supports flexible learning and provides access to a wide range of materials. It encourages self-directed learning, digital literacy, and independent problem-solving.

In innovative educational environments, the teacher's role shifts from being a primary source of knowledge to that of a **facilitator, mentor, and motivator**. Teachers guide students' learning, provide feedback, create engaging activities, and adapt lessons to students' needs. They also model effective communication, critical thinking, and problem-solving skills. Continuous professional development is essential for teachers to master innovative methods, understand new technologies, and implement them effectively in the classroom.

The use of innovative pedagogical technologies provides multiple benefits, including:

Enhancing student engagement – students actively participate in learning rather than passively receiving knowledge.

Developing critical thinking and creativity – interactive and project-based methods encourage problem-solving and innovative ideas.

Improving knowledge application – students connect theoretical knowledge with practical tasks.

Strengthening professional competencies – teamwork, communication, and digital skills prepare students for the workforce.

Promoting self-directed learning – students learn to manage their own learning process and develop lifelong learning skills.

Despite their advantages, implementing innovative pedagogical technologies can face several challenges:

Limited technical resources – many schools and universities lack sufficient digital tools and internet access.

Teacher preparedness – some educators may not have the training or experience to effectively implement new methods.

Resistance to change – traditional teaching habits can slow adoption of innovative approaches.

Solutions include investing in modern educational technologies, providing professional development programs for teachers, creating supportive institutional policies, and gradually integrating innovative methods alongside traditional instruction.

Innovative pedagogical technologies are an essential component of contemporary education. Their application enhances the quality of teaching, increases student motivation, and develops the competencies necessary for professional and social success. By adopting these technologies, educators prepare learners for the challenges of the 21st century, foster independent and critical thinking, and encourage creativity and innovation. The integration of

innovative pedagogical technologies into educational practice is not optional - it is a requirement of the time.

References:

1. Prensky, M. (2010). *Teaching digital natives: Partnering for real learning*. Corwin Press.
2. Johnson, D. W., Johnson, R. T., & Holubec, E. J. (2013). *Cooperation in the classroom*. Interaction Book Company.
3. Baltayeva A.T. Talabalar o'rtasida til ko'nikmalarini rivojlantirishda innovatsion va axborot texnologiyalarning o'rni. «Eurasian Journal of Academic Research» ilmiy-uslubiy jurnali: "XALQARO BAHOLASH TIZIMI: ISLOHOT, MUAMMO VA YECHIMLAR" xalqaro ilmiy – amaliy konferensiyasi (Toshkent, 2024 yil 27-28-noyabr) INTERNATIONAL ASSESSMENT SYSTEM: REFORM, PROBLEMS AND SOLUTIONS (Tashkent, November 27-28, 2024)
4. Baltayeva A.T. Dars samaradorligini oshirishda zamonaviy pedagogik va innovatsion texnologiyalarning ahamiyati. "Zamonaviy til ta'limi: muammo va yechimlar" mavzusida professor-o'qituvchilar, yosh olimlar va iqtidorli talabalarning ilmiy-nazariy anjumani materiallari 2024-yil 30-mart . Toshkent "O'ZKITOBSAVDONASHRIYOTI" NMIU 2024.
5. Baltaeva A.,T. Amanlikova N.R. Computer interaction with students in language teaching //AIP Conference Proceedings. – AIP Publishing LLC, 2022. – T. 2432. – №. 1. – S. 060025.
6. Baltayeva A. T. Designing lessons aimed at teaching students to critically evaluate the personality of the heroes of the work of fiction //ACADEMICIA: An International Multidisciplinary Research Journal. – 2021. – T. 11. – №. 3. – S. 947-952 .
7. Baltayeva A. T. Shaping the critical thinking of pupils at literature lessons //European Journal of Research and Reflection in Educational Sciences. – 2019. – T. 7. – №. 10. – S. 6-8.
8. Baltayeva A., Xalikberdiyeva N. FORMATION OF CULTURAL COMMUNICATION IN RUSSIAN-SPEAKING GROUPS //Talqin va tadqiqotlar. – 2023. – T. 1. – №. 20.
9. Baltayeva, I. T., Baltayeva, A. T., Axmedova, M. A., Axmedova, M. M., & Kazaqov, R. T. (2024). USE OF VIRTUAL LABORATORIES TO CONDUCT FOOTBALL TRAINING. *Modern Science and Research*, 3(2), 709-718 .
10. Boltayeva, I. T., Boltayeva, A. T., Axmedova, M. A., Axmedova, M. M., & Kazoqov, R. T. (2024). PERIODS OF PRODUCTION EDUCATION. THE PERIOD OF INITIATION, PREPARATION, ACQUISITION AND COMPLETION OF THE PROFESSION. *Modern Science and Research*, 3(2), 561- 569.
11. A.T.Baltayeva. Bo'lajak adabiyot o'qituvchilarini o'quvchilarnitanqidiy baholashga o'rgatishga tayyorlash metodikasi. O'quv q'ollanma.Toshkent, "LESSON PRESS" nashriyoti, 2023, 105- bet.
12. Baltayeva I., Baltayeva A., Tursunova N. Unique reproduction is away from revealing literary success. *Vidyabharati international interdisciplinary research journal TURKEY*. ([http://www.viirj.org/specialissues/ indexing](http://www.viirj.org/specialissues/indexing) : ESCI (Web of Science) 2021/SP2108/SP2108.html.
13. Baltayeva I. Drip the role and importance of tradition in literary succession (On the example of the work of Abdulla Qahhor). *South Asian Academic Research Journals*

- (SAARJ). ACADEMICIA. An International Multidisciplinary Research Journal. Impact Factor-SJIF-2021.
14. Boltayeva O., Pirnazarova S. THE EXPRESSION OF TRUE HUMAN FEELINGS IN ALISHER NAVOI'S EPIC" FARHAD AND SHIRIN" //Talqin va tadqiqotlar. – 2023. – T. 1. – №. 24.
 15. Boltayeva O. ALISHER HAVOIY ASARLARI ORQALI O'QUVCHILARDA TANQIDIY FIKRLASHNI RIVOJLANTIRISH //"Science Shine" International scientific journal. – 2023. – T. 6. – №. 1.
 16. Baltayeva A. T. SHE'R KISHI RUHINING SEROHANG SOZI //SCIENTIFIC ASPECTS AND TRENDS IN THE FIELD OF SCIENTIFIC RESEARCH. – 2023. – T. 2. – №. 15. – S. 81-84
 17. Boltayeva A. T. et al. PERIODS OF PRODUCTION EDUCATION. THE PERIOD OF INITIATION, PREPARATION, ACQUISITION AND COMPLETION OF THE PROFESSION //Modern Science and Research. – 2024. – T. 3. – №. 2. – S. 561-569.
 18. Anadjan Tadjibayevna B. Importance of Distance Education Today //Miasto Przyszłości. – 2024. – T. 46. – S. 191-194.
 19. Baltayeva A. T. Teaching students to critically evaluate the characters of a work of art in literature classes. "Language and literature education". 2021. Number 5. 294-300 p.
 20. Baltayeva A. T. Students to the Heroes of the Artistic Work Non-Traditional that Teaches Critical Evaluation Lessons. International Journal on Orange Technologies (IJOT) VOL. 3 NO. 4 (2021): IJOT 432- 434.www.iupr.ru
 21. Baltayeva O. T. Development of reading activity by teaching students to critically evaluate the characters of the literary work. Journal of Pedagogy 2021. Issue 6. 54-57 b.