

**DEVELOPMENT OF CREATIVE COMPETENCES OF TECHNOLOGICAL
EDUCATION TEACHERS IN TRADITIONAL AND MODERN EDUCATION.****Jurayeva Balkhiya Farkhod kizi**

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ANNOTATION:

This article analyzes the issues of developing creative competencies of technological education teachers in traditional and modern education systems. Effective ways to develop teachers' creative competencies through the use of modern educational technologies and methods are considered, including design, problem-based learning, group work, interactive methods, and the use of ICT. In addition, the importance of the educational environment in developing teachers' creativity, the promotion of independent thinking in the learning process, the use of creative tasks, and the application of innovative approaches are highlighted.

Keywords: Technological education, teacher, creative competence, traditional education, modern education, ICT, innovation, educational environment.

АННОТАЦИЯ:

В статье анализируются вопросы развития творческих компетенций учителей технологического образования в традиционных и современных системах образования. Рассмотрены эффективные пути развития творческих компетенций педагогов за счет использования современных образовательных технологий и методов, включая проектирование, проблемное обучение, групповую работу, интерактивные методы, использование ИКТ. В нем также рассматривается важность образовательной среды для развития творческих способностей учителей, поощрения самостоятельного мышления в процессе обучения, использования творческих заданий и применения инновационных подходов.

Ключевые слова: Технологическое образование, учитель, творческая компетентность, традиционное образование, современное образование, ИКТ, инновации, образовательная среда.

Introduction: Today, in an era where technology is developing rapidly, the demands placed on teachers of technological education are also increasing. Not only being an expert in their field, but also such competencies as creative thinking, the ability to quickly accept innovations and apply them to the educational process, and the ability to use innovative approaches are of great importance for a teacher of technological education. Because, a teacher of technological education must educate students as competitive and creative individuals who meet the requirements of the 21st century. From this point of view, the issue of developing the creative competencies of teachers of technological education is of urgent importance. The traditional education system requires teachers to mainly impart knowledge and does not pay enough attention to developing their

creativity. Modern education encourages teachers to engage in creative research, master new technologies and apply them in the educational process.

“The tasks of improving the quality of education and developing the digital economy, set out in the Decree of the President of the Republic of Uzbekistan No. PF-60 dated January 28, 2022 “On the Development Strategy of New Uzbekistan for 2022–2026”, make the issue of developing the creative competencies of teachers of technological education even more urgent. Because the effective implementation of digital technologies in the educational process and the creation of new generation textbooks depend on creatively thinking teachers.”

Main part. Limited opportunities for developing the creative competencies of teachers of technological education in traditional education. The traditional education system prioritized the role of teachers in conveying knowledge to students. In this regard, aspects such as developing teachers' creativity and applying innovative approaches were considered secondary tasks. The following features of traditional education have hindered the development of teachers' creative competencies:

- Uniformity and strict planning of teaching
- Passive role of students: Orientation of the assessment system
- Inadequate teacher training system:

Development of creative competencies of teachers of technological education through modern educational technologies

The modern education system pays great attention to the development of teachers' creativity. In this regard, aspects such as teachers' creative approach to the educational process, the use of innovative technologies, and teaching students to think independently are important. The following technologies can be used to develop the creative competencies of teachers of technological education in modern education:

- **Project-Based Learning:** This technology provides students with the opportunity to work on projects aimed at solving real-life problems. The teacher provides direction to students, supports their independent research and creative work.
- **Problem-Based Learning:** This technology allows students to learn new knowledge by solving complex problems. The teacher identifies the problem, and the students try to find a solution independently.
- **Collaborative Learning:** This technology allows students to work in groups, collaborate, exchange ideas, and make decisions together. The teacher coordinates the work of the groups and helps the students.
- **Interactive teaching methods:** These methods help make the learning process interesting and dynamic. For example, methods such as “Brainstorming”, “Discussion”, “Role playing” can be used.
- **Use of ICT:** Computers, the Internet, interactive whiteboards, virtual laboratories and other ICT tools enrich the learning process and help develop teachers' creativity. Teachers can create multimedia presentations, interactive tests, virtual tours and other interesting materials for lessons.

The importance of the learning environment in developing the creativity of technological education teachers

The learning environment plays an important role in developing teachers' creativity. A comfortable and stimulating learning environment creates opportunities for teachers to freely express their thoughts, try new ideas, and not be afraid of making mistakes.

To develop the creativity of technology education teachers, the following learning environment should be created:

- **An environment based on mutual respect and trust:** Teachers should be able to freely express their thoughts, collaborate, and support each other.
- **An environment that encourages creative exploration:** Teachers should be encouraged to learn new technologies, try innovative approaches, and share their experiences.
- **An environment based on freedom and independence:** Teachers should be free to plan their lessons, choose teaching materials, and use teaching methods.
- **A fair and encouraging evaluation system:** Teachers' creative work and innovative projects should be fairly evaluated and encouraged.

The issue of developing creative competencies of teachers of technological education in traditional and modern education has been widely discussed in recent years. In this regard, changes in technologies, teaching methodologies, and pedagogical approaches play a major role in teachers' acquisition of the necessary competencies for creativity and innovative approaches. The analysis of the literature shows that the issue of developing creative competencies of teachers of technological education has been the focus of attention of many researchers in recent years (for example, Ken Robinson, 2011 "Out of Our Minds: Learning to Be Creative": Ken Robinson saw creativity as an important factor in the education system. He emphasized the need to encourage creative thinking in education systems and develop students' innovative thinking skills. Robinson called on teachers and education systems to move away from the traditional approach and support creative and original thinking. Howard Gardner (USA) "Frames of Mind: The Theory of Multiple Intelligences". Gardner's theory of multiple intelligences plays an important role in the development of creative competencies. The theory he created states that each person is endowed with different intellectual strengths. According to this theory, creative thinking in education and to develop creativity, students should be offered approaches that match their abilities and interests.). He emphasized in his articles that the use of technological tools helps the teacher to apply innovative approaches in the pedagogical process. Muslimov. N. A. et al., 2015 "Pedagogical competence and creative foundations", T. Aliboyev 2023, E. Shamsiddinova 2023, K. Kudratov, A. Nafasov, etc. Studies and research have been conducted by researchers such as. However, these studies aim to fill the gap that is not sufficiently covered by the comparative analysis of traditional and modern education systems. Creative competencies of teachers mean their creative approaches to teaching students, effective use of technologies, and openness to pedagogical innovations.

1. Definition and importance of creative competencies: The article describes creative competencies as the ability of a teacher to generate new ideas and present existing knowledge to students in a new way. These competencies require the teacher to not only provide knowledge to students, but also to help them think independently, solve problems and find innovative solutions.

The article also discusses the fact that creative competencies are aimed at the teacher's activity in the educational process, inspiring students and developing their creative abilities.

2. The role of technological education in the development of creative competencies: The role of technological education in the development of creative competencies deserves special attention. Modern technologies create opportunities for teachers to update the pedagogical process, introduce new teaching methods to students and make education more interactive, effective and creative. The article emphasizes the need for teachers to use modern technologies not only to provide students with knowledge, but also to help them create new ideas. It also discusses the need for technological tools to encourage teachers to think creatively, to stimulate students' independent and creative activities, and to form the necessary competencies for teachers in this process.

3. Traditional education and modern education: The article examines the differences in the development of teachers' creative competencies by comparing traditional and modern education systems. While in traditional education the teacher remains the main source of information transfer, the interactive methods used with modern educational technologies lead teachers to new pedagogical approaches. The teacher's ability to use technological tools is necessary not only to provide students with information, but also to encourage them to consolidate their knowledge, learn and think creatively.

4. The impact of new technologies on the development of teachers' creative competencies: The article discusses the possibilities of effectively organizing the educational process using modern technologies, such as digital learning platforms, interactive programs, distance learning tools and mobile applications, in developing teachers' creative competencies. Through these technologies, teachers will have the opportunity to update their pedagogical approaches and offer new methods to students. The article also presents proposals for preparing teachers to use technologies for pedagogical purposes and developing their creative thinking.

5. Teacher Training and Professional Development: The article discusses the need to improve the skills of teachers in preparing them to develop creative competencies. The article emphasizes the need to provide them with continuous professional development courses, trainings and seminars to develop their technological competencies. At the same time, training teachers in the effective use of pedagogical innovations and technologies leads to an increase in the quality of the education system.

The purpose of this article is to analyze the process of developing the creative competencies of teachers in technological education in traditional and modern education, to show the role of technological tools in motivating teachers to think creatively, and to identify the necessary professional development methods to prepare teachers to use innovative pedagogical approaches. The article also focuses on the positive impact of modern technologies on the educational process and the development of teachers' creative competencies to make this process more effective.

CONCLUSION AND PRACTICAL SUGGESTIONS

This study was aimed at a comparative analysis of the issue of developing creative competencies of teachers of technological education in traditional and modern education systems. The results obtained showed that the traditional education system does not create sufficient opportunities for

the development of creativity of teachers of technological education. On the contrary, modern educational technologies and innovative approaches help to effectively develop teachers' creative competencies. According to the results of the study, the use of project-based learning, problem-based learning, interactive methods and ICT tools in modern education significantly increases teachers' creative thinking skills, adaptability to innovative approaches, problem-solving skills and the ability to master new technologies. In addition, the study identified the important role of the educational environment in developing teachers' creativity. A comfortable and stimulating learning environment creates conditions for teachers to freely express their opinions, try new ideas and not be afraid of mistakes. It is of practical importance for teachers, methodologists, and higher education institutions working in the field of technological education. Based on the information obtained, it is possible to improve the training and advanced training programs for technological education teachers, organize trainings and seminars aimed at developing their creative competencies, and strengthen methodological support for the use of modern educational technologies.

Improvement of educational programs: Introduce special courses and trainings aimed at developing creative competencies for students studying in technological education in higher education institutions. Pay more attention to practical exercises, projects, and creative assignments in educational programs.

1. Improving the system of advanced training: Pay special attention to topics such as modern educational technologies, interactive methods, project-based learning, and problem-based learning in advanced training courses for teachers of technological education. Organize special trainings and seminars for teachers on developing creativity.

2. Improving the educational environment: Creating favorable conditions for teachers' creative research in educational institutions. Encouraging teachers to learn new technologies, try innovative approaches and share their experiences. Providing educational institutions with modern technologies and improving teachers' skills in using them.

3. Strengthening methodological support: Providing methodological assistance to teachers of technological education in the use of modern educational technologies, planning and conducting lessons. Creating methodological guides, video lessons and other materials for teachers. Organizing master classes of experienced teachers.

4. Improving the assessment system: Taking into account the creative competencies of teachers of technological education when assessing their professional activities. Encouraging teachers' creative work, innovative projects and the introduction of new technologies into their lessons.

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