

INNOVATIVE METHODS FOR IMPROVING THE MODERNIZED METHODOLOGICAL SUPPORT OF MANUAL LABOR TRAINING IN HIGHER EDUCATION

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Abstract: This article highlights innovative methods for improving the modernized methodological support for organizing handicraft classes in the higher education system. The study examines the theoretical and methodological foundations of the effective use of modern pedagogical technologies, digital tools, the STEAM approach, design thinking, project tasks, teamwork, and elements of gamification. These innovative methods serve to strengthen students' practical skills, analyze problem situations, develop creative and engineering thinking, as well as form competencies in independent decision-making and collaborative work.

Keywords: innovative methods, manual labor training, digital technologies, STEAM, design thinking, gamification, project approach, competency-based learning, pedagogical technologies, practical skills.

Innovative methods for improving the modernized methodological support of manual labor training in higher education are a scientific and methodological system aimed at the effective organization and improvement of the process of forming practical skills through modern pedagogical technologies, digital educational tools, creative and interactive methods, and competency-based approaches.

As we all know, for centuries, educating the younger generation in the spirit of historical memory, national consciousness, and universal values, forming a healthy environment in society, drawing lessons, scientific, educational, and spiritual nourishment from the past, and making the present prosperous and the future great has been an important and urgent task for the people of that time, especially the nation's intellectuals. Today, the social policy pursued in the country, in particular, scientific and practical research in education, is aimed at educating the younger generation, the future of our country, in the national spirit, instilling a sense of diligence, raising a comprehensively developed person, and forming in their hearts a spirit of loyalty to the Motherland and its people.

The wisdom quoted by our President from Eastern sages, "The greatest wealth is intelligence and knowledge, the greatest inheritance is good upbringing, the greatest poverty is ignorance!" is becoming the motto of our day PhD[9]. In pedagogy, psychology, and methodology, special attention is paid to the role and significance of national-spiritual and universal values, and the improvement of the educational and methodological system for educating the younger generation in the spirit of diligence is envisaged.

"As you know, in my speech at the 75th session of the United Nations General Assembly, I once again drew the attention of the world community to Uzbekistan's initiative to adopt the International Convention on the Rights of Youth, among many other important issues.

By the rights of youth, we mean, first of all, their full right to a peaceful and healthy life and education. Therefore, ensuring the well-rounded development of the younger generation and their access to quality and comprehensive education is always a priority for us.

We all understand the great truth in the words of the great stateswoman Indira Gandhi: "If you educate one girl, you educate the whole family."

The allocation of 940 places for girls from low-income families living in rural areas to study in the full-time departments of higher educational institutions on the basis of state grants is proof of the large-scale reforms being carried out by our leader.

I believe that such an additional opportunity created for our girls will bring the light of knowledge and enlightenment to hundreds of more families. This, in turn, creates a solid foundation for our young girls to develop into worthy professionals for society in the future.

I think there is no need to prove to anyone today how high the consciousness and worldview of future teachers will be... implementing such reforms in the field of education is both our duty and obligation."

In modern society, the rapid development of the economy, the modernization of industry, and the digitalization of technological processes pose completely new tasks for higher education. In particular, the improvement of practical skills - especially lessons related to manual labor - in preschool, technological education, and vocational areas is becoming a pressing issue. Due to the fact that traditional practical classes do not sufficiently form the independent development of students' thinking, technical culture, creative thinking, and problem-solving skills, the need to introduce new approaches to this process is increasing.

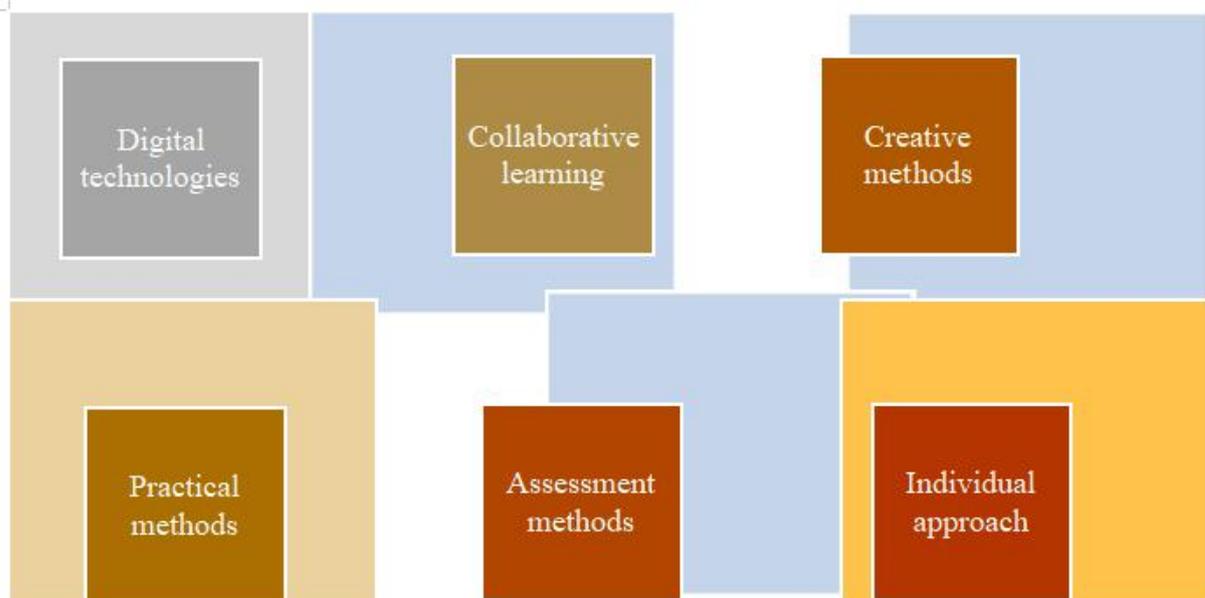
Innovative methods are an approach aimed at organizing the educational process based on advanced pedagogical technologies, creative and digital tools, interactive forms of teaching, which allow combining theory with practice. Table 2.1.1. Innovative methods.

1. Giving a project assignment based on a problem situation.	At the beginning of the lesson, students are offered a problem close to real life. Example: "Make a compact, environmentally safe container for household items." This approach: engineering develops thinking, encourages the development of design solutions, and strengthens independent decision-making.
2. Work on the stages of "Design Thinking"	Organize the practical training in the following stages: Empathy - needs identification, problem identification, idea creation, prototype development, testing and improvement. This method teaches students creative and systematic thinking.
3. Teamwork: "Role Groups" Method	Divide the students into small groups and give each a role: Designer, technologist, materials specialist, presenter. This develops in them the skills of cooperation, responsibility sharing, reaching a common solution.
4. STEAM integration	Add elements of mathematics, physics, and art to the

	<p>topic.</p> <p>For example: for a wooden object: measurement (mathematics), strength (physics), decoration and composition (art).</p> <p>The STEAM approach makes the process more meaningful.</p>
5. "Mini-laboratory" method 5-10 minute task for each group:	<p>For example, "Test different materials and determine which one is suitable for the product."</p> <p>These are: practical experience, analysis, drawing conclusions develops their skills.</p>
6. Application of digital technologies	<p>In the lesson: the use of 3D drawing programs (Tinkercad, SketchUp), short video instructions, AR/VR layouts motivates students.</p>
7. Final presentation and reflection	<p>Each group: presents its product, explains the problem and solution, analyzes the shortcomings in the process, which increases the culture of critical thinking and speech.</p>

Such approaches, along with technical skills, also form in students the skills of analyzing problem situations, teamwork, finding design solutions, and engineering thinking. Innovative methods in manual labor education.

Figure 2.1.1. Modern pedagogical technologies and practical approaches.



Based on digital technologies, we can highlight the enrichment of the educational process with game elements. The main elements are: ✓ Points, levels and achievement system ✓ Competition and team competitions ✓ Virtual awards and ratings ✓ Visual progress display To implement

this Gamification, it is also possible to activate gamification plugins on Moodle or Canvas platforms, create special mobile applications for practical training.

Innovative approaches in handicraft education, including the use of gamification, project-based learning, and digital platforms, develop students not only in technical skills, but also in the skills of analyzing problem situations, engineering thinking, teamwork, and finding design solutions. In the process of practical training, it is advisable to activate existing gamification plugins on the Moodle or Canvas platforms, through which tasks can be organized in the form of a "mission" or "quest" step by step, and students can be motivated by points, badges, and ratings. This approach increases students' interest in the lesson and enriches the process with game elements.

It will also be effective to support practical assignments in training workshops using mobile applications. Through special applications or mini-tasks with QR codes, students independently search, determine the properties of materials and tools, which makes the process more interactive. Uploading the stages of practical work in the form of a photo or video on a digital platform, maintaining a "digital portfolio" will develop skills in analyzing the process, evaluating and improving their activities.

At the end of the lesson, students can be encouraged to work on themselves by giving a team rating based on gamification elements, a complex final task in the form of "boss fight," as well as a certificate or badge for innovative ideas. Such approaches enrich the content of practical classes, introduce elements of competition, creativity, and motivation into the educational process, and ensure that the subject of handicrafts becomes more interesting and effective for students.

For our second technology, we can give the process of preparing students for practical work in class, which is the study of theory at home and practice in the classroom.

The main elements are:

Senior year students teach younger students. Or students teach preschool teachers in connection with the practice process. Working with these methods is convenient for students, and we can apply this in concentrated lessons. Currently, we can see that literature is also effective in history lessons and in the process of preparing applicants for reading.

The importance of collaborative learning is also effective in teaching handicrafts, where students help each other, correct shortcomings together, and can exchange ideas. Develops social skills by reinforcing knowledge through mutual consultation and support, explanation. Every week, 2-3 year students become mentors to 1st year students, a special mentor-student program, which is an important factor in the development of students' knowledge and skills through manual labor. The cooperative teaching method is also effective in teaching manual labor. In small groups, training based on structured cooperation is carried out in the form of organizing groups of 3-5 people, each member takes responsibility, performs complex projects together, forms groups with communication and teamwork skills, a rotation system, assigns a specific role to each group member (leader, technician, controller, reporting).

LIST OF USED LITERATURE

1. Decree of the President of the Republic of Uzbekistan dated January 28, 2022 No. UP-60 "On the Development Strategy of New Uzbekistan for 2022-2026."

- 2 Decree of the President of the Republic of Uzbekistan No. UP-5847 dated October 8, 2019 Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030.
- 3.Speech by the President of the Republic of Uzbekistan Shavkat Mirziyoyev at the solemn ceremony dedicated to the Day of Teachers and Mentors. 30.09.2020.
- 4.Mirziyoyev Sh.M. The satisfaction of our people is the highest assessment of our work. - T.: Uzbekistan, 2018. Pp. 25-26
5. Resolution of the President of the Republic of Uzbekistan dated May 5, 2019 No. PP-4307 "On Additional Measures to Increase the Effectiveness of Spiritual and Educational Work."
6. Resolution of the Cabinet of Ministers of the Republic of Uzbekistan dated January 18, 2021 No. 23 "On Approving the Concept for the Development of State Youth Policy in Uzbekistan until 2025."
- 7.Resolution of the Cabinet of Ministers No. 1059 of December 31, 2019 "On Approving the Concept of Continuous Spiritual Education and Measures for its Implementation."
8. Law of the Republic of Uzbekistan "On Education" dated 23.09.2020 No. 3PY-637
9. <https://scholar.xjtlu.edu.cn/en/persons/SiyueYu>
- 10.<https://www.gazeta.uz/oz/2020/09/23/bmt/>