

THE ROLE OF INNOVATIVE TECHNOLOGIES IN SEWING FIELD EDUCATION

Anarboyeva Feruza Nabijanovna

Master of Vocational School No. 1, Pop District, Namangan Region

ABSTRACT

This article talks about the introduction of new technologies, the role of innovative technologies in the modern educational process of tailoring, and ways to improve the professional skills of students through their use. Also, how technologies such as computer-aided design (CAD) programs, 3D design and rendering, automated cutting and digital sewing machines are used in the educational process and their positive aspects are covered in detail.

Keywords: Information and communication technologies, pedagogical technologies, innovations, traditional methods, educational system, quality of education, Internet, multimedia, interactive methods.

INTRODUCTION

The current level of technical development, the continuous creation of newly improved high-performance automated and high-precision machines is based on the use of the latest achievements of science, requires the training of specialists who have a deep understanding of theoretical knowledge and new techniques and production technology. In recent year, the field of information technologies takes an important place in the development of our republic. Over the past years, Uzbekistan's policy of the government on the wide introduction and development of information technologies has shown its great results in our country.

Also, in the educational process, the interest and attention to the use of innovative technologies, pedagogical and information technologies in the educational process is growing day by day, one of the reasons for this is that until now, traditional education has been dead. if students are taught to acquire only ready-made knowledge, modern technologies teach them to search for the acquired knowledge by themselves, to study and analyze independently, and even to draw their own conclusions. In this process, the teacher creates conditions for the development, formation, learning and upbringing of the individual, and at the same time performs the functions of management and guidance. In the process of education, the student becomes the main figure. Through practical experience, instructors may help students not only grasp basic ideas but also develop the maturity and abilities needed to apply those concepts successfully in the real world.

RESOURCES AND METHODS

The process of education is incredibly complex one and involves both instructors' and students' creative thinking as well as mental work. Improving the effectiveness of the lesson is inextricably linked with the establishment of the educational process on a scientific basis and the practical application of new pedagogical technologies. The main goal of organizing innovative activities in higher education institutions is to ensure the consistency of cooperation between teachers and students and to launch it with a specific goal. In this work, both pedagogical and management issues are solved. It should be noted that the participants

of pedagogical innovations should thoroughly acquire methodological, psychological, pedagogical and technological knowledge about the laws of the process of creation, manifestation and management of innovations. Otherwise, pedagogical innovations will not produce effective results.

The introduction of innovative technologies in sewing training plays an important role in increasing the efficiency of professional education. Not being limited to traditional methods and manual work, by mastering advanced technologies in the field of modern tailoring, an opportunity is created to prepare students as highly qualified specialists in demand in the labor market.

Also, the use of innovative technologies in the field of tailoring brings the educational process to a new level in terms of quality. These technologies not only make students more interested, but also serve to develop their practical skills.

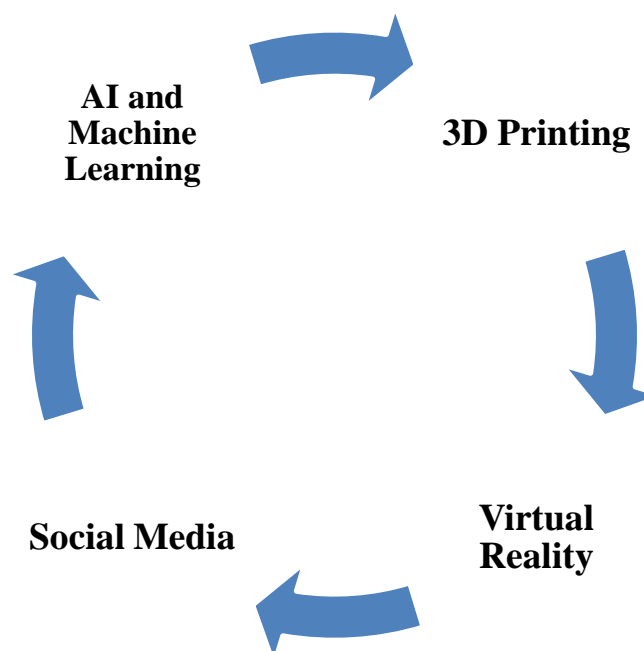


Figure 1. Innovative technologies in education

Digital Learning Platforms. Modern methods of teaching sewing include the use of technology, innovative teaching methods and modern teaching strategies to make the learning process more interesting, effective and convenient.

Online Learning Platforms - These platforms provide easy access to learning materials like video tutorials, articles and study guides. Students can learn at their own pace and at home.

Social Media and Peer Learning – Social media platforms like Instagram and YouTube provide a place where users can share tutorials, tips and techniques with each other, a channel for mutual support. creates an online community of the network.

3D Modeling and Design. 3D modeling programs (such as CAD systems) help create new designs in the garment industry. Students will have the opportunity to test their ideas using and practicing real models and put them from theory into practice.

Nowadays, computer-aided design (CAD) systems, 3D design and modeling, and digital sewing machines have become an integral part of the educational process, with many widely using it. With the help of CAD systems, students are given the opportunity to depict projects in three dimensions, quickly change their projects and analyze them according to various parameters, speed up the design process and monitor the progress of students, evaluate projects and provide an individual approach. This, in turn, creates the basis for a better understanding of project concepts, project improvement, implementation of new ideas and experiments, development of practical skills necessary for future careers, and quick identification and correction of errors.

In general, CAD systems make the learning process more interactive and interesting, give students the opportunity to learn modern technologies and strengthen their professional training.

Automated Sewing Machines. Digital sewing machines also play an important role in teaching tailoring. With the help of digital machines, seams are accurate and of high quality, and sewing processes are accelerated. This allows students to do more and gain more experience. Students can quickly see their work and evaluate results. It increases creativity and develops their professional skills by creating new designs and realizing their own ideas.

Mobile Applications. Mobile apps provide sewing resources, tutorials and tips. Students can update their knowledge anytime and anywhere. Online communities and forums allow students to share experiences, get advice, and showcase their work. This process encourages self-learning and develops creative thinking.

Automated cutting technologies, such as laser or plasma cutting, allow precise and high-quality cutting. It helps students create high-quality products, use materials effectively. As a result, it significantly speeds up the cutting process, reduces costs and supports an environmentally sound approach. This allows students to quickly do more work, gain experience, and develop innovative thinking skills.

ADVANTAGES

These modern methods of teaching tailoring have been proven to interest and motivate students to learn, improve the quality of education and improve educational outcomes. By taking advantage of technology and other modern learning strategies, garment artisans can learn, improve their skills, and expand their creativity in more creative and innovative ways than ever before.

As a result of innovative technologies, the following results can be achieved:

1. About 70% of students actively participate in the teaching process with the help of innovative technologies, which is 30% more than traditional methods;
2. Students trained using innovative methods acquire 20% more knowledge;
3. Through 3D printing technologies, students have the opportunity to quickly and easily test their designs, which increases the speed of implementing innovative ideas by about 40%;
4. Students who have mastered innovative technologies will have 30% more employment opportunities;

5. Learning processes through online platforms are approved by 50% more students. These figures demonstrate the significance of cutting-edge technology in sewing industry education. Incorporating contemporary teaching techniques into the classroom raises students' knowledge levels and boosts their employability.

CONCLUSION

Innovative technologies have an unmatched impact on personalizing education. Along with helping encourage students' creativity and practical abilities, they also contribute to an increasingly engaging and successful teaching process. Due to contemporary technology like computer programs and internet resources, pupils can comprehend intricate stitching procedures and come up with innovative solutions for them.

Students will also be able to present their work, interact with professionals through idea exchange, and discover new trends thanks to cutting edge technology. This contributes to both the application and expansion of knowledge.

Thus, incorporating cutting-edge technology into education not only raises the standard of instruction but also serves as a vital means of preparing the next generation of designers.

They are not only prepared in accordance with modern requirements and market needs, but also are formed as specialists with creativity and technical skills.

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