

Application of Innovative Educational Technologies in the Teaching of Specialized Subjects in Professional Education

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ABSTRACT

This article analyzes the effectiveness and achievements of using innovative educational technologies in the process of teaching specialized subjects in the current professional education system.

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One of the main goals of the reforms carried out in our country is to create new economic relations based on the laws of the market economy and create a legislative framework aimed at consistent legal regulation of them. As noted in the national program of Personnel Training, "the creation of conditions and effective mechanisms for the realization of a person, his comprehensive harmonious development and well-being, personal interests, the transformation of outdated thinking and forms of social behavior are carried out in the Republic. reforms. "The formation of a perfect system of training of personnel based on the achievements of the rich intellectual heritage of the people, universal values, modern culture, economy, science, technology, and technology is an important condition for the development of Uzbekistan". Reform and improvement of the educational system of Uzbekistan in the 21st century is one of the priorities. This, in turn, is the responsibility of our scientists to update the educational literature in the relevant educational disciplines and introduce innovative and educational technologies into the educational process, considering the requirements of the current period and the latest achievements of science. demanding First, what is new in science? In science, it is necessary to answer questions about what innovation is. In practice today, there are differences between the word's novelty. Innovation is the latest achievements, knowledge, and methods of science. These achievements, knowledge, and methods become novel when applied in practice. Currently, graduates of all higher education institutions are strictly required:

1. they are modern computer and information technologies;
2. must be fluent in foreign languages, especially English.

Pedagogical scientists and methodologists of our republic have conducted and carried out many scientific and methodological studies of theoretical and practical importance regarding the improvement of education, that is, the process of technological improvement, acceleration and enrichment of the content, and the use of modern pedagogical technologies. is going For example, H. Rashidov developed "Social-pedagogical and theoretical-methodological foundations of the development of secondary special vocational education in Uzbekistan". NA Muslimov researched "Problems of professional formation of future vocational education teachers". These researches were conducted on the issues of teaching special subjects and improving industrial education in educational institutions.

Today's high development of science, technology, technology and production automatically puts new social demands on the agenda. Among these social requirements, the society, moreover, the force that moves the development of industries on its basis - the training of qualified personnel, and the

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improvement of the system aimed at this goal are important. Although the need for training of qualified personnel arose in the early stages of the development of the industrial sector, when production enterprises appeared, it still does not lose its relevance. The main reasons for this are the emergence of new directions, specializations, the need to train personnel in accordance with the social, economic and cultural development of society, the professional knowledge, skills and skills of specialists in a changing, fast-paced era. the formation of the need for continuous improvement, as well as the increased demand for being able to cope with strong competition in the labor market as a specialist. These works are aimed at improving the effectiveness of teaching special subjects included in the curriculum of educational institutions. However, the analysis of existing scientific-methodical articles and literature in our republic and in nearby foreign countries indicates that insufficient scientific-methodical research has been carried out on researching the theoretical and practical aspects of individual-oriented teaching of special subjects on the basis of full-fledged modern educational technologies. . Before studying the possibilities of using modern teaching technologies in the teaching of special subjects, we will consider the specific features of special subjects in secondary special and vocational education.

1. Special subjects in which technical issues are covered in the educational material.
2. Special subjects in which issues related to product production technology are covered in educational materials.
3. Special subjects covering issues related to raw materials in the educational material.
4. Special subjects that include educational materials on the organization, management and economy of production.

In order to make it easier for students and professors to use international educational resources, a single modern optical fiber computer network has been launched in higher education institutions for the past 3-4 years. With the help of this high-speed Internet network, it became possible to communicate with educational institutions of our country and abroad, and conduct video conferences. The decree of the head of our state dated June 12, 2015 "On measures to further improve the system of retraining and professional development of managers and pedagogues of higher education institutions" will raise the work in this regard to a new level, higher education It is extremely important as it envisages the fundamental improvement of the quality of training of highly qualified specialists based on the continuous improvement of the professional level and qualification of professors and teachers of the country, the introduction of an improved system of their regular retraining in accordance with modern requirements. The decree defined the important directions of further improvement of the system of retraining and professional development of managers and pedagogues of higher education institutions. In particular, with the wide introduction of high-performance modern education and innovation technologies, advanced foreign experience, to fundamentally update the qualification requirements, curricula, programs and methods of retraining and improving the qualifications of pedagogical staff of higher educational institutions. related measures were expressed. This, in turn, is a necessary condition for professors and teachers teaching students in higher educational institutions to keep up with the times, to widely introduce innovations in subjects, as well as advanced methods into the educational process. creates, at the same time, requires continuous development of professional skills, pedagogical and scientific activities. After all, raising the intellectually capable, smart generation of the modern generation coming of age today, providing them with pure knowledge is directly related to the high level of knowledge of specialists. According to the decree, it is necessary to organize retraining and professional development courses for leaders and pedagogues of higher educational institutions, which are constantly operating in the relevant areas of retraining, to conduct training in these courses at a high-quality organizational and professional level. it was noted that it is necessary to form a teaching-methodical and material-technical base. These efforts, of course, in the conditions of today's market

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economy, will help to train highly qualified and mature specialists, turn the higher education system into an important factor in the socio-economic life of the country, and also increase the quality and efficiency of the personnel training system.

The current educational development has brought a new direction - innovative pedagogy to the field. The term "innovative pedagogy" and research related to it appeared in Western Europe and the USA in the 60s. The socio-psychological aspect of innovation was developed by the American innovator E. Rogers. He studies the classification of categories (types) of the participants of the innovation process, their attitude to the innovation, and their readiness to perceive it. Innovation (English innovation) is innovation. AI Prigozhin understands the purposeful changes that introduce new, relatively stable elements to a certain social unit - organization, population, society, group.

U.D.Khidirov, K.J.Mirsaidov, R.K.Choriyeu thought that the purpose of studying special subjects is "to form professional skills of students in modern techniques and production technology", and presented didactic principles for teaching special subjects. The following must be considered to create educational programs for special subjects and to organize the teaching process based on these programs:

1. Paying attention to the sequence of subjects and topics when drawing up educational programs and work plans;
2. Providing deeper knowledge of physics, chemistry, and mathematics in the system of secondary special and vocational education to deepen and perfect the knowledge acquired by the students of vocational schools from the general secondary education school;
3. When introducing new pedagogical technologies from special subjects, it is necessary to focus on strengthening the practical direction of the technological processes performed in the preparation of products produced by various production enterprises.

Educators working in every educational institution should know the mechanism of practical application of modern teaching technologies in education. We cannot deny that today's students are fundamentally different in terms of their potential from those of the past. For example, to use modern teaching technology in the course of the lesson, the teacher must: - receive and deliver communication information; - motivate and interest students in learning; - it is necessary to have skills such as management of teaching based on the principle of visualization-demonstration (high-level implementation). A teacher who can form modern teaching technology methods and has developed skills, in his work, i.e.: in the course of teaching, certainly uses technical tools such as computers, overhead projectors, flipcharts, and pinboards in the classroom. will have the skill to use. Realization of the educational goal in the course of the lesson, i.e.: motivation (interest) in the delivery of educational content to learners and methods of visualization, didactic materials, and technical tools from the complex economic growth factors for the current stage of society's development from a qualitative point of view the process of improvement is characteristic. Application of advanced results of scientific and technical development, intensification of production, use of highly effective innovative technologies, and most importantly, training of highly qualified specialists is one of the important directions in this regard. Currently, the ratio between the quantity and quality aspects of the labor force is changing dramatically. Textbooks and training manuals, methodical manuals and instructions, data sets and banks, scientific and public periodicals, and relevant information on the Internet are available to the student as a source of information for independent work. a bank of previously completed works on a given topic, etc. will serve.

The introduction of innovative educational technologies in the teaching of specialized subjects in vocational education can have many advantages. These technologies can enhance the learning experience, engage students, and give them the practical skills they need for their future careers. Here are a few examples of how these technologies can be used:

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1. Virtual Reality (VR): VR can create an immersive learning environment where students can practice real-life scenarios in a safe and controlled environment. For example, medical students can perform virtual surgeries, or engineering students can develop and test prototypes.
2. Augmented Reality (AR): AR can place digital data in the real world, enhancing understanding of complex concepts. For example, architecture students can visualize building designs from AR, or chemistry students can study molecular structures.
3. Gamification: Making learning a game can increase student motivation and engagement. By incorporating game elements such as points, levels, and rewards, students can have a more interactive and engaging learning experience.
4. Online Learning Platforms: The use of online platforms allows students to access study materials anytime and anywhere. These platforms can provide interactive lessons, quizzes, and collaboration tools that facilitate self-directed learning and foster communication between students and teachers.
5. Artificial Intelligence (AI): AI-powered tools can provide personalized feedback and flexible learning experiences. These technologies can analyze student performance, identify areas for improvement, and provide tailored recommendations to improve learning outcomes.

By using these innovative technologies, vocational education becomes more dynamic, practical and engaging, preparing students for the challenges of their future careers.

In short, the educational management provides a library with a study hall equipped according to current standards, classrooms with sufficient computer equipment, and an Internet network for students to complete their independent work on time. I think it is necessary to create conditions for effective use of Using teaching methods based on innovative technologies, imparting knowledge to students occupies an important place nowadays.

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