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Theoretical and Methodological Issues of Modernization of Technology Education

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Abstract: In this article, topics such as modernization of technology science based on the requirements of the labor market, sustainable development from a socio-economic point of view, application of the knowledge, skills and qualifications acquired by students in the course of technical-technological and technological process operations in their independent practical activities are discussed. will be considered.

Key Words: increasing competitiveness, obsolescence of infrastructure, labor migration, introduction of advanced technologies, engineering and technical professions

Introduction

In the Address of the President of the Republic of Uzbekistan Sh. Mirziyoyev to the Oliy Majlis, it is necessary and necessary to acquire digital knowledge and modern information technologies to achieve development, which gives the opportunity to take the shortest path to progress, and it is emphasized that today's enterprises are completely far from digital technologies. it was proved that technologies can not only increase the quality of products and services, but also reduce excess costs, increase efficiency, in a word, dramatically improve people's lives. The tasks of developing and implementing the "Digital Uzbekistan - 2030" program, which envisages updating all sectors of the economy based on digital technologies, have been determined. This will create more opportunities for modernization of the leading branches of industry and strengthening of competitiveness, introduction of advanced technologies, establishment of high-tech enterprises, technological parks, production enterprises, construction of modern engineering communication infrastructures.

Main Part

Today, the formation of the necessary skills for education, living and working in an industrialized country among students studying in general secondary schools is becoming an urgent issue. Information and communication technologies have changed society in the last 30 years. At the same time, large labor migration, underdeveloped social infrastructure, high levels of poverty and unemployment, outdated infrastructure, incompatibility of personnel competencies with the strategic goals of economic development, problems of intellectual property protection, limited opportunities for higher education, high technology and science-based underdevelopment of production, insufficient investment in human capital and image, lack of qualified employees, low level of qualification of middle managers and employees, lack of motivation for work among workers, prestige of labor and engineering-technical professions problems such as the falling of the roof, the use of outdated work methods are waiting for their solution.

Based on the current state of technology science and the analysis of accumulated experiences, based on the existing gaps and shortcomings, it is necessary to determine the main trends in the development of technology science education.

The following are defined as the strategic goals of science development in the implementation of trends:

Modernization of technological science based on the requirements of the labor market, socio-economically stable development; Students should be able to apply the knowledge, skills and qualifications they have acquired in their independent practical activities, to choose a profession, to enter into social relations based on national and universal values, and to acquire the necessary competencies in the labor market. forming; creating the necessary conditions for students to develop technological literacy, critical, creative and systematic thinking, to make independent decisions, to demonstrate their intellectual abilities and to develop as morally mature individuals; The defined strategic goals are implemented based on the following tasks: creation of a

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consistent system of technology education at all levels of pre-school, general secondary, professional and higher education systems; development of scientific methodical support of technological science; development of proposals for strengthening the material and technical support of technological science, providing it with modern equipment and technologies; formation of innovative infrastructure by introducing digital technologies and modern methods into the technology education process; achieving the status of technological science and its main role in ensuring the connection of fundamental knowledge with human creative activity and the interaction between the environment and general educational content; organization of mutual integration of subjects and guidance of students to professions; to serve as a base stage for the training of professions and specialists that are taught within the scope of science and are selected as promising for the economy of our country; personnel training, modernization of existing personnel supply and effective use of human potential; introduction of new methods of determining the skills to be acquired for the introduction of qualification requirements, as well as updated educational standards; development of an evaluation system based on the content of the subject, its specific characteristics, qualification requirements and competences to be formed; development and implementation of the Regulations for the organization of the Science Olympiad.

Conclusion:

Modernization of technological education, socio-economic through sustainable development, students can apply the knowledge, skills and abilities they have acquired in their independent practical activities, choose a profession, enter into social relations based on national and universal values, and enter into social relations based on national and universal values. formation of necessary competencies is achieved. This, in turn, paves the way for personnel training, modernization of existing personnel supply, and effective use of human potential.

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