

Use of Digital Technologies in Managing the Agricultural Education System

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Abstract: This article presents the main directions of digitalization in the effective management of the agricultural education system, the use of digital technologies in increasing labor productivity and improving personnel potential.

Key words: agricultural education system, labor market, personnel training, management, digital technologies, efficiency, innovation.



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The introduction of new technologies in the education system of developed countries of the world, as well as special attention to personnel potential, is widely implemented in order to meet the demand for personnel in various fields, educational integration, innovation, and the connection of practices with production. The development, implementation, and achievement of the intended results of reforms ensuring the sustainable development of the country are inextricably linked with the specialists who organize these processes and their knowledge of innovative management. Because correctly determining the directions of reforms and the results to be achieved requires qualities such as high knowledge, potential, and professional skills from specialist personnel. In addition, it is important to properly organize personnel management at every enterprise and organization in every sphere and direction, to place the most qualified personnel with the necessary knowledge and potential in each workplace.

In order to ensure the integration of science and production in the agricultural sector, the introduction of modern information and digital technologies into the educational process, and the improvement of the system of training personnel with sufficient knowledge and skills in advanced foreign experience and agricultural technologies, taking into account the prospects for the development of the regions, the consistent implementation of the tasks defined in the Decree of the President of the Republic of Uzbekistan dated July 30, 2020 No. PP-4795 "On Measures for Further Improvement of the Agrarian Education System," the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan dated December 15, 2020 No. 788 "On Approving the Strategy for Innovative Development of the Agrarian Education System until 2030" is one of the main tasks of today.

At the same time, taking into account the administrative reform of public administration, the creation of a compact and efficient management system, the introduction of digital technologies, and advanced achievements of foreign experience, starting from 2023, a number of ministries, committees, agencies, and other agencies will conduct the management process at a single level. Therefore, the need to use digital technologies is required for the future effective work of personnel trained in the agricultural education system. Therefore, during our research, a model for improving management mechanisms for training qualified personnel in the agricultural education system through digital technologies was developed (Fig. 1). In the context of the development of the digital economy, the introduction of various models for increasing competitiveness in the labor market creates the possibility of accelerating digitalization processes through this model in ensuring the employment of personnel in the agricultural education system. This means that it is necessary to carry out work on systems for the effective use of information technologies in personnel.

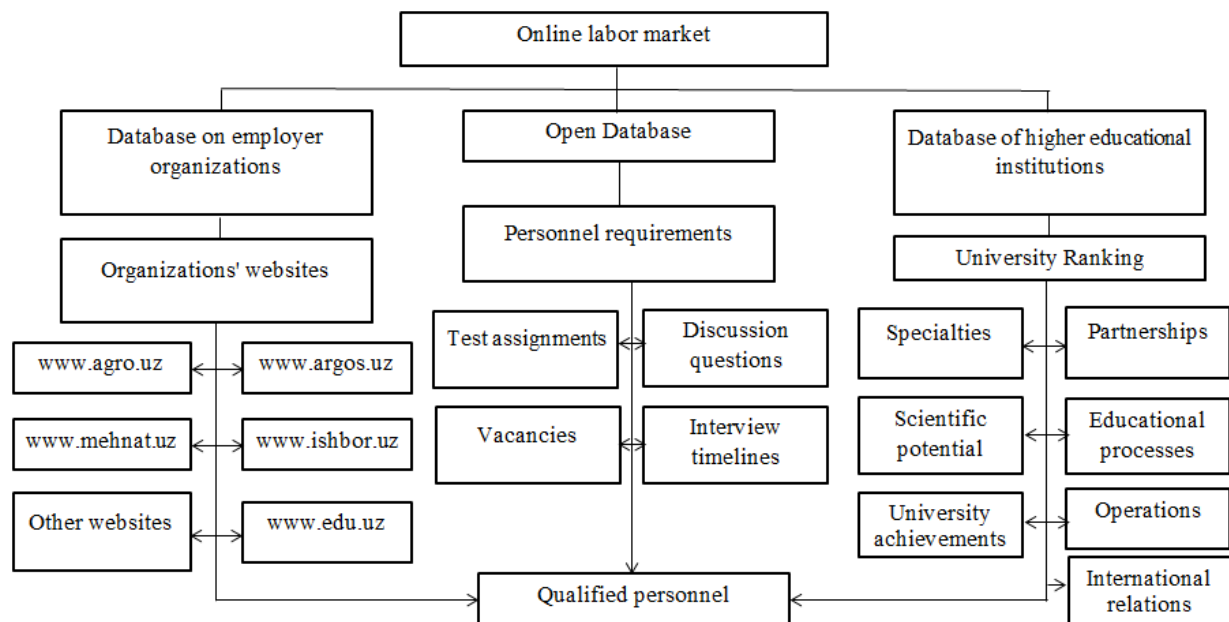


Figure 1. Model for improving management mechanisms for training qualified personnel in the agricultural education system based on digitalization

Through this model, employment will be ensured in the short term as a result of creating broad opportunities for graduates based on the open database of educational institutions, employers, and other organizations. Also, in the context of the development of the modern economy, the organization has the opportunity to meet the need for qualified personnel based on its own strategy. It is necessary to study the need for new professions, link the organization of the educational process of the educational institution with practice, study the requirements of the labor market of educational institutions, and pay attention to the training of qualified personnel based on the implementation of marketing policy.

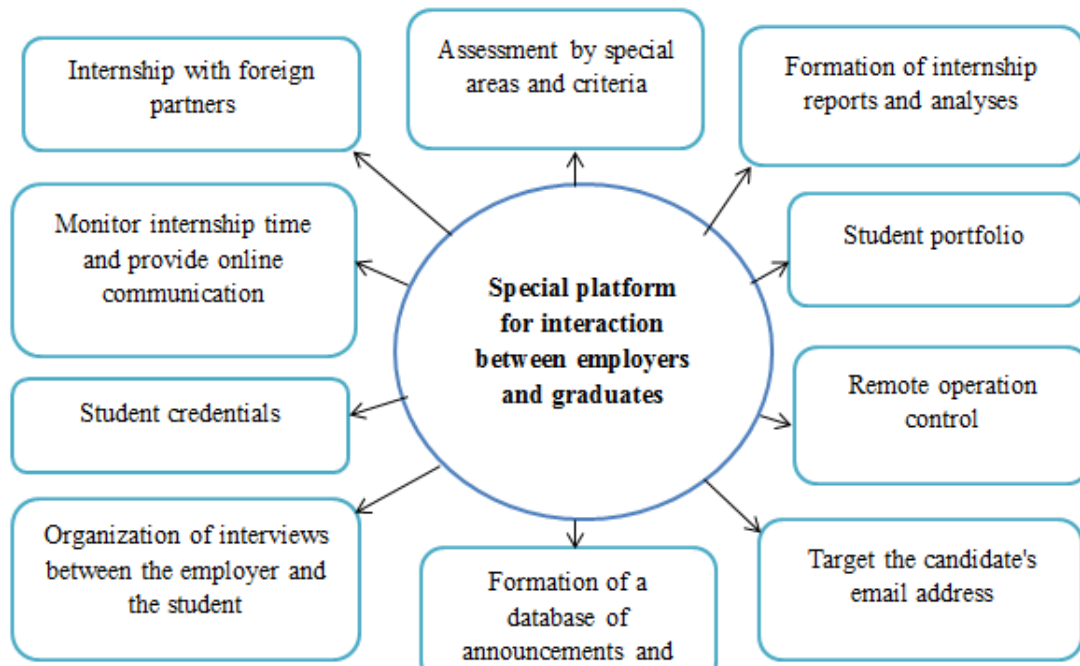


Fig. 2. Special platform for interaction between employers and graduates¹

In order to create a healthy competitive environment among qualified personnel in the labor market, ensure the integration of science and production, and organize mutually beneficial cooperation between employers and educational institutions, a platform using modern digital technologies has been developed. With the help of this platform, more than 600 personnel (students) of the Tashkent State Agrarian University conducted internships in foreign countries and leading employers in our republic. In this case, personnel (students) enter information about themselves into their portfolio, and the employer selects qualified personnel who can contribute to the development of the organization. This will ensure transparency in the labor market and increase interest in mutual education among personnel, as well as employment without graduation.

In conclusion, in the future, it will serve to accelerate the introduction of digital technologies in the effective management of the agricultural education system, increase labor productivity, increase the effectiveness of the educational process and the quality of education, increase personnel potential through the systematic organization of digitalization work, ensure the employment of graduates, and train specialists who meet the requirements of the labor market. Also, as a result of saving financial resources of educational institutions, it will be possible to create modern classrooms and provide the agricultural sector with qualified personnel during the transition to a digital economy.

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¹ Author's development