

TECHNICAL INNOVATIVE-EDUCATIONAL ENVIRONMENT CONTENTS OF INTEGRATION COOPERATION BETWEEN MANAGEMENT AND PRODUCTION ENTERPRISES

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ABSTRACT

The international practice of integrating technical departments and manufacturing enterprises into the innovative educational environment, specific approaches and integration measures taking into account the interests of manufacturing enterprises and educational institutions in innovative systems are considered.

KEY WORDS: education, production, integration, foreign experience, research universities, integration activities.

INTRODUCTION

Innovation is recognized as a top priority by countries around the world. That is, one of the most important factors in accelerating the development of society and socio-economic development is the implementation of an effective innovation policy, the introduction of new, advanced technologies, new forms of organization and labor management based on the achievements of scientific and technological progress.

Improving the effectiveness of classes is inextricably linked with the establishment of the educational process on a scientific basis and the practical application of new pedagogical technologies. The main purpose of organizing educational activities is to ensure coherence of cooperation between teachers and students and ensure its focus. This work addresses both pedagogical and managerial issues.

It should be noted that participants in pedagogical innovations should have deep methodological, psychological, pedagogical, technological knowledge about the laws of the process of occurrence, manifestation and management of innovations. Otherwise, pedagogical innovations will not produce effective results.

One of the main aspects of the modern scientific and technological revolution is the integration of technical units and production into the innovative education system. This interconnected system produces highly qualified specialists at all levels.

In international practice, such integration is carried out in the form of such factors as educational and research-and-production centers, complexes, and technopolises. They are entrusted with preparing highly qualified specialists, conducting scientific research and applying the results of these studies in industry. In such associations, the main organizational unit is the technical departments that carry out the relevant industry-specific educational, scientific and technical policies, based on the needs of society [1].

The implementation of such projects in Uzbekistan requires not only the preparation of relevant regulations and material and financial costs, but also the psychological retraining of the factors that make up the technical departments and manufacturing enterprises in the field of education. The state of integration of technical departments and industrial enterprises in the innovative educational environment in our country is organized as follows.

The problem of integrating technical departments and industrial enterprises in the innovative educational environment of Uzbekistan began to be addressed in the second half of the 80s. This problem is effectively reflected in the organization of departments and branches of research institutes that have made a significant contribution to the industrial and professional education of students, as well as in the form of long-term comprehensive practical training.

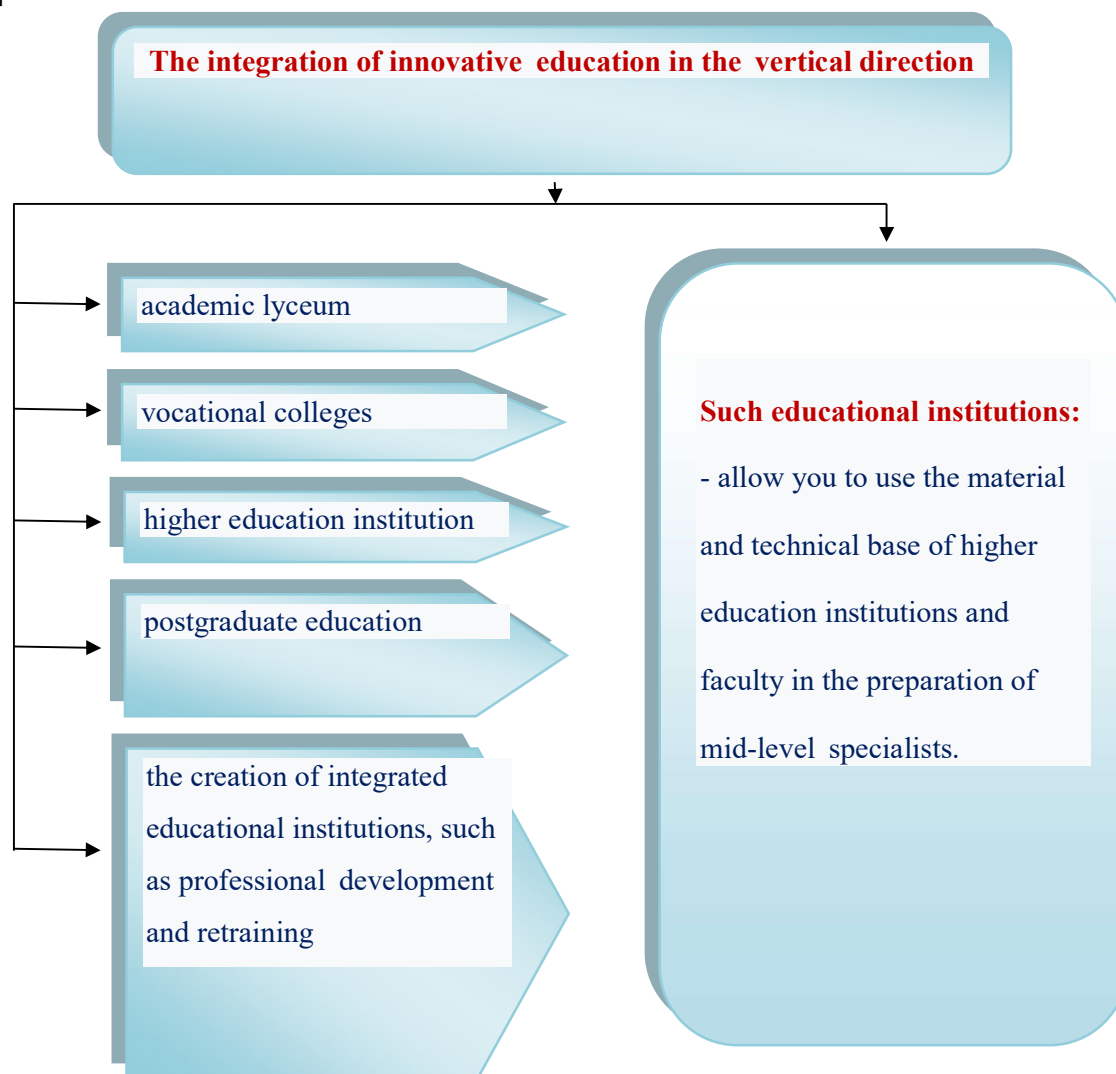
Thus, integration has allowed to increase the level of training, reduce the time for their adaptation to production and, most importantly, to conduct training on a modern scientific and technical base with the involvement of qualified specialists in production [1].

Today, in the innovative educational environment in the country, the development of a completely new level of integration is required, which will ensure the continuity of technical departments and production enterprises and the training of competitive personnel.

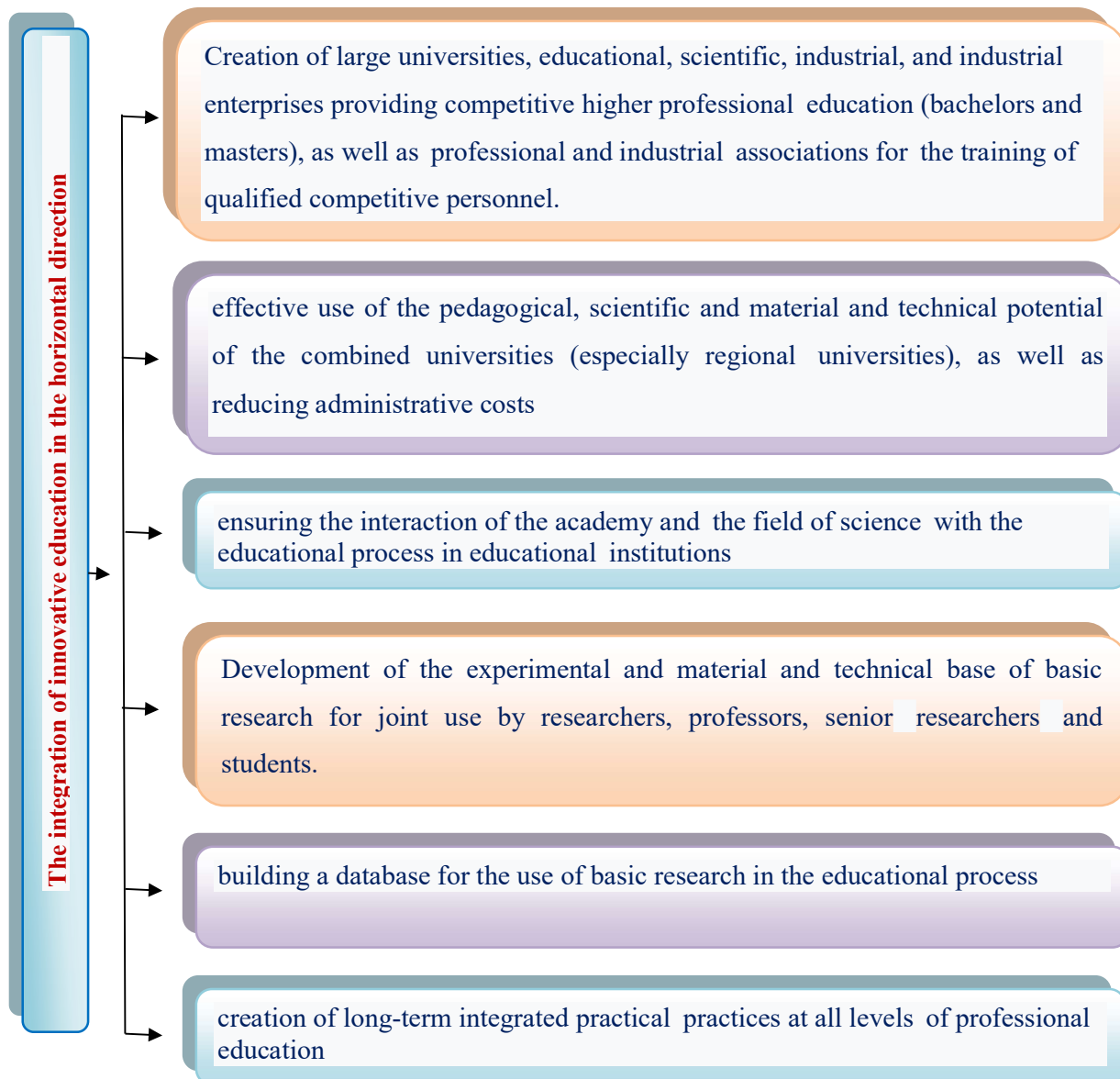
A new level of integration of technical departments and manufacturing enterprises in the innovative educational environment is based on the following [2]:

- ❖ experience of intellectually developed countries and international cooperation;
- ❖ training of specialists of all levels;
- ❖ academies and technical departments for the educational process of retraining and advanced training;
- ❖ wide involvement of manufacturing enterprises as interested partners;
- ❖ Development of student education, research, scientific products and innovative small enterprises.

The ongoing processes of modernization in the socio-economic and educational spheres of the country also have a direct impact on the continuing education system. This, in turn, requires improving educational paradigms, developing solutions to the functional and conceptual problems of its components, as an important characteristic of an innovative educational environment and the conditions for the successful realization of individual potential. In addition, the integration of technical departments and manufacturing enterprises in an innovative educational environment should develop in the following areas (Scheme 1.2) [3, 4]:



Scheme 1. Integration of innovative education in the vertical direction



Scheme 2. Integration of innovative education in the horizontal direction

The development of an innovative education system in our country is based on the development of ties between science and the educational process, the integration of production and the education system, and includes the following [2]:

- ❖ in-depth applied research in the field of education and training will be conducted, research and development of scientific and methodological guidelines in the field of pedagogy and education will be intensified with the aim of organizing and ensuring the quality of education in accordance with state educational standards;
- ❖ encouraging the participation of scientific personnel in the field of basic and applied sciences in the educational process, ensures the connection of pedagogical and research processes;
- ❖ creative support for youth in science and technology is fully supported;

- ❖ to encourage the creation and development of training and production complexes (centers), to equip them with modern equipment, instruments and tools;
- ❖ the production of enterprises is effectively used in the training and development of joint scientific and technical solutions; the process of training in the industry is supported;
- ❖ the qualifications of teaching staff in the field of advanced technologies are constantly increasing in the process of direct production;
- ❖ increasing the creative and social activity of the individual creates the necessary conditions for the training of mentally rich, highly qualified, competitive personnel;
- ❖ the main goal of the integration interaction of technical departments and production enterprises in an innovative educational environment, the basis for the training of qualified competitive personnel covers all types of education, including state educational standards, the national training model and its functioning mechanisms.

In a word, the state policy in the field of personnel training in our country provides for the formation of a comprehensively developed personality due to the integrative interaction of technical departments and production enterprises in an innovative educational environment, inextricably linked with the intellectual and mental and moral education of a person. Thus, the right of students to intellectual development, to work in their profession, to demonstrate their creative abilities is realized.

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