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DEVELOPMENT MECHANISMS OF PREPARING STUDENTS FOR INNOVATIVE ACTIVITIES IN TECHNICAL HIGHER EDUCATION INSTITUTIONS

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ABSTRACT

This article describes the mechanisms of development of students' preparation for innovative activities in higher technical educational institutions . Also, in the article, the main directions of preparation of students for innovative activities, pedagogical technologies of development, didactic conditions are covered in the higher education institution.

Keywords: professional mobility, didactic, motivation, cognitive, reflexive, competence, innovation, rationality, inventiveness, innovative activity, intellectual, design, research, pedagogical project.

It makes it possible to theoretically justify the main areas of preparation of students for innovative activities in a higher educational institution, take into account pedagogical technologies, the system of didactic conditions and modern training manuals, and describe the criteria and levels of evaluating the readiness of future engineers for innovative activities .

Based on the research of modern didactics, we try to consider the readiness of future engineers for innovative activities as the main criteria: These criteria include the following: motivational-personal, operational-active and cognitive-reflexive, which are formed on the basis of fundamental disciplines that determine the professional mobility, adaptability and competitiveness of an engineer in the labor market. general cultural and professional competences of the specialist are evaluated in three main components. This group of competencies relies on the student's creative ability, his cognitive and intellectual activity in innovative fields, and creates wide opportunities for him in rationalization, invention, design and research activities.

The developed diagnostic criteria for evaluating the readiness of future engineers for innovative activities are based on the improvement of the organizational, content and procedural aspects of the educational process by introducing modern technical, pedagogical and organizational tools to the higher education system.

Pedagogical project is related to the teacher's desire to create conditions for educational and extracurricular activities for his students, in which they more fully reveal their inner world, become free, achieve success and feel themselves. At the same time, the pedagogical project is aimed at bringing the pedagogical process closer to the real conditions of students' future professional activities.

Pedagogical project is a pedagogical technology as "coherent and continuous movement of interconnected components, stages, situations of the pedagogical process and actions of its participants."

In this regard, as a result of the pedagogical design, we developed a technology for developing the readiness of future engineers for innovative activities in the conditions of technical HEIs,

which is based on a subject-subject approach to the interaction of technology participants (Fig. 1).

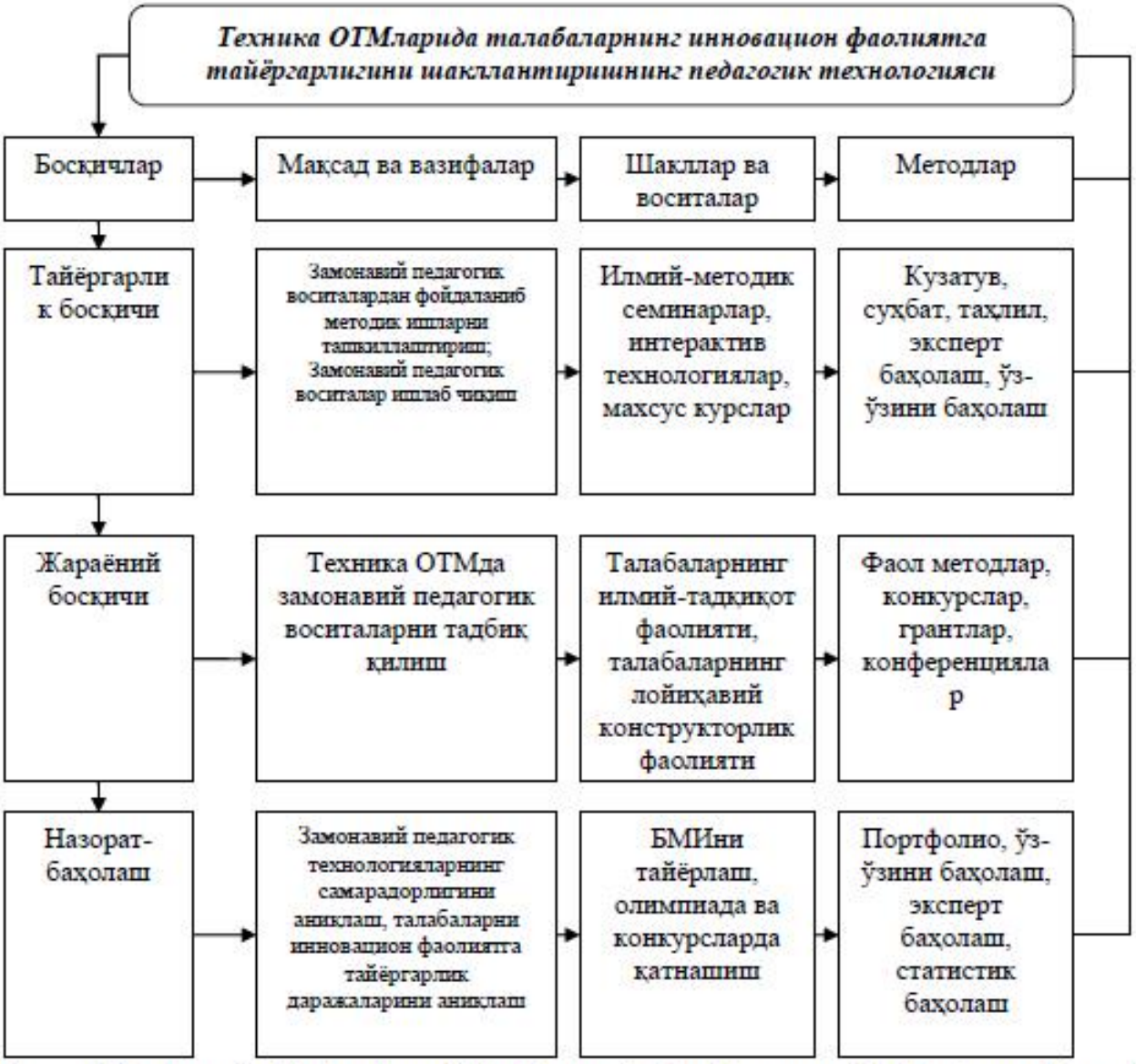

Figure 1. Pedagogical technology of developing students' preparation for innovative activities in technical higher education institutions

The preparatory stage involves the organization of scientific-methodical work in the form of consultations and methodical seminars explaining the features of using modern teaching methods and technologies with students and professors of departments.

In the research activity of students, the main attention is paid to design and invention work in the laboratories, small innovative enterprises and scientific-practical centers of OTM.

In the process stage, special courses on the development of students' creative thinking and creativity will be held, advice will be given on choosing topics for courses and diploma projects based on high technologies, and students will be involved in the work of small enterprises of OTM.

At the control-evaluation stage, the dynamics of the development of future engineers' readiness for innovative activity are studied based on the participation and victories of students in

competitions and Olympiads, activities in small enterprises, and the effectiveness of the developed technology.

Thus, the main result that determines the effectiveness of the use of this technology in the educational process of technical vocational education and training is the readiness of future engineers for innovative activities, which corresponds to the state's order for a modern specialist and is one of them.

Techniques aimed at solving the problems of training modern professional personnel. The presented technology of formation of training of vocational training students is based on a competency-based approach in education, which allows the introduction of a system of modern pedagogical tools and forms.

We can come to the conclusion that the use of modern pedagogical tools, forms and methods of working with students of Technical Higher Education Institutions requires the reconstruction of the infrastructure of Higher Education Institutions and the content of the educational process in accordance with the modern requirements of training engineers.

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