



PREPARING STUDENTS FOR PROFESSIONAL ACTIVITY AS A PEDAGOGICAL PROBLEM BASED ON AN INNOVATIVE APPROACH

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Abstract:

This article analyzes current challenges in preparing students for professional activities using an innovative approach. It discusses recent reforms in the education system, presidential decrees and resolutions aimed at developing education, as well as scientific recommendations for addressing the tasks outlined in these documents. The article presents pedagogical aspects of preparing future engineers for professional activities, foreign experiences, and the root causes of emerging problems.

Keywords: education, innovation, innovative approach, modernization, professional activity, innovative thinking, innovative systems, innovative activity.

In recent years, the education system has been characterized by a strong demand for the modernization of education, taking into account the general trends of world development in this area. The most important stage of reforming the education system in our republic was the inclusion of our country in the Bologna process and, as a result, the transition of our republic to a two-tier higher education system. Recently, a significant increase in the requirements for specialists by employers has led to a further increase in the current demand for the amount of narrowly focused knowledge, skills, and abilities in accordance with the "specialized" educational standards of higher education. One of the important requirements facing higher educational institutions is the training of specialists in science and, moreover, in production, possessing knowledge of various types of professional activity, a high level of education, a culture of management, communication, self-education, practical knowledge in the relevant areas of specialization, and a willingness to change its nature and content [1-4].



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In recent years, large-scale measures have been taken in our republic to raise the quality of training future engineers to a new level, to orient students towards professional activity, and to train professional personnel based on an innovative approach to the educational process in higher educational institutions, and certain results have been achieved [5]. The Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030 defines as an important task, in particular,..."the introduction into the educational process of all higher educational institutions of the system of studying students' opinions (feedback) and mutual visits (peer review) and, on this basis, improving the quality of educational services for students; the phased implementation of the "University 3.0" concept, which provides for the inextricable link between the commercialization of the results of education, science, innovation, and scientific research in higher educational institutions." [6,7]

The issue of developing the professional training of future engineers based on the management of the educational process of higher education in the world based on an innovative approach has become one of the urgent tasks. It is necessary to improve the mechanisms for organizing the educational process based on an innovative approach to the modern higher education system and implement them in practice based on innovative engineering systems. In recent years, our esteemed President Shavkat Miromonovich Mirziyoyev, along with all other spheres, has been paying special attention to the fundamental reform of the higher education system, the training of competitive personnel, and the introduction of the experience of developed foreign countries into the higher education system. Reforms in the higher education system are reflected in the Presidential Decree "On Measures for the Further Development of the Higher Education System" of April 20, 2017. Moreover, the "Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030" also pays special attention to reforming the higher education system based on modern requirements. This document defines "increasing the level of higher education coverage, training highly qualified, innovative and systematically thinking personnel capable of making independent decisions based on international standards, creating the necessary conditions for the manifestation of their intellectual abilities and the



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formation of a spiritually mature personality" as a strategic goal [8,9]. All the above documents, aimed at the further development and improvement of the educational process based on modern requirements, contain common aspects related to the introduction of innovations into the education and upbringing system, the upbringing of young people who think on the basis of innovative ideas, the assimilation of foreign experience, the support of creative approaches, and the strengthening of integration processes between types of education.

Currently, in our Republic, along with all other spheres, special attention is paid to improving the educational process and improving the quality of training competitive personnel in higher educational institutions, creating the necessary conditions for training qualified specialists based on international experience, establishing close cooperation between each higher educational institution and leading higher educational institutions of the world, widely introducing advanced pedagogical technologies, curricula and teaching materials based on international educational standards into the educational process, developing modern professional knowledge and creative abilities of students and teaching staff. The organization of the educational process in higher education based on an innovative approach is understood as the ability to describe positive actions that demonstrate real, non-standard methods of innovative thinking in solving professional problems to achieve communicative goals in intersubjective relations of the educational process. Innovation is more embedded in everyday professional activity and serves as a basis for the development of the competitiveness of not only individual enterprises, but also the country's economy[10].

In the modern European educational environment, the training of engineering personnel occupies a leading place. Engineering activity, which today implements education based on an innovative approach, implies such an organization of the structure of the educational process, aimed at the final result - the quality of the activities of graduates, measured by competence. Analysis of the new generation educational standards for the professional training of future engineers shows that the content of higher education already includes disciplines that form the engineering and design competencies of graduates, which have an interdisciplinary,



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holistic character, which allows preparing students for professional engineering activities.

Modern requirements for the professional training of graduates of higher educational institutions, including engineering and design competencies, imply the achievement of a holistic final result of the education system, which is an important task for the formation of basic engineering and design competencies as a unit of generalized knowledge and skills, personal abilities of graduates.

In recent years, special attention has been paid to the development of innovative qualities in students in the education system of leading foreign countries. This can be seen in numerous studies and their results conducted by Bronson, Merriyman (2010), Ken Robinson (2007), Fisher, Frey (2008), Begetto, Kaufman (2013), Ali (2011), Treffinger (2008), and others.

The organizers of the education system annually focus on achieving high effectiveness in educational institutions. For this purpose, curricula will be developed, and new textbooks will be created. This contributes to the professional growth of both students and teachers. The practical actions taken create, to a certain extent, the need for students to achieve success, to strive for progress, and contribute to the development of their professional abilities.

The main factor - innovation - is the rejection of pre-planning lessons, the development of critical, innovative thinking in students, forcing them to think creatively, to come up with new ideas, changing their attitude towards learning, and encouraging them to achieve success.

For a full understanding of the general essence of the process of developing innovative qualities in an individual, it is first necessary to understand the meaning of the concept of "innovation." According to Ken Robinson, "innovation is a set of original ideas that have their own value" (Azzam, 2009). Gardner, in his research, defines the concept of innovation as follows: "innovation is a practical action carried out by an individual, which must reflect a certain novelty and have a certain practical value."

In developed countries, creativity is becoming a constant practice and the main source of competitive advantage. The formation and development of a creative personality depends on the compatibility of changes in their inner and outer worlds,



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socio-economic conditions, and the content of human ontogenesis - activity that requires continuity and succession from birth to the end of life. The professional maturity and development of the student's personality as a specialist, by its very nature, manifests itself in the form of a systematic creative process. In almost any sphere of production, the person with creative potential ultimately wins. Management of the educational process in higher education based on an innovative approach is aimed at developing the creative abilities of future specialists, strengthening their attitude towards innovations in their professional consciousness by transforming them into a potential for the formation of knowledge and skills. The innovative approach to the educational process is strengthening its position as an innovative type of education in our country, the main direction of which is the development of innovative thinking, the development of innovative abilities and intellectual potential, the search for new approaches to solving modern problems. These provisions are reflected in the national educational initiative for the development of innovative higher education, which defines the development of a creative personality and the continuous creative self-development, the training of innovators capable of self-improvement, as a priority task. This encourages students to acquire innovative knowledge, to be self-creators and creators of their future".

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