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MAIN DIRECTIONS OF INTEGRATING SCIENCE AND EDUCATION IN UZBEKISTAN

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Abstract. The article discusses topical issues of improving the system of continuing education, training highly qualified personnel and increasing the intellectual and technological potential of the country. There also determined main directions of the integration of science and education in Uzbekistan on the basis of the adopted Program for the integrated development of the higher education system in 2017-2021.

Keywords: structural reforms, continuing education system, legal support, innovative technologies, integration of science and education.

Structural transformations over the years of independence in Uzbekistan and the need to implement a set of socio-economic objectives contributed to the formation in the Republic of coherent system of continuing education of modern type.

The country adopted the most important laws that laid a solid foundation for the creation of holistic system of continuing education: Law of the Republic of Uzbekistan "On Education" and "On National Program for Personnel Training". As a result of their implementation over this short historical period, fundamental changes have taken place in the essence of the education system of the Republic of Uzbekistan, an appropriate legal framework has been created, which sets training of an educated and intellectually developed generation as a priority.

Fundamental changes have occurred in the organization of higher education system. A two-stage system consisting of bachelor and master degree programs was introduced, classifier of education areas and master's specialties was approved, for each of which state educational standards were developed and applied in practice.

At present stage of implementation of the main directions of Strategy of Actions in Uzbekistan, a great attention is paid to issues of integration of science and education. A lot of work is purposefully carried out to further improve the system of postgraduate education, system of training and certification of scientific and scientific-pedagogical personnel is being improved. In accordance with Resolution of the Cabinet of Ministers of the Republic of Uzbekistan "On measures to further improve the system of postgraduate education and certification of scientific and scientific and pedagogical personnel of higher qualification", system of retraining and advanced training of pedagogical personnel of higher educational institutions was improved, the work of Head Scientific and Methodological Center for the Organization of Retraining and advanced training of teaching and management personnel of higher education under the Ministry of Higher and Secondary Specialized Education, 10 industry and 5 regional centers for retraining and advanced training of teaching staff of universities.

In general, training of highly qualified personnel is crucial in improving intellectual and technological potential of the country. In particular, in Strategy of Actions on five priority areas of the development of the Republic of Uzbekistan in 2017-2021, one of the most important priority areas of the social sphere is a development of the sphere of education and science: continuation of the course of further improvement of the system of continuing education, increasing the availability of quality educational services; dramatic improvement in the quality and effectiveness of higher educational institutions through the introduction of international standards of education.

The most important task defined in the Strategy of Actions is to stimulate research and innovation, create effective mechanisms for introducing scientific and innovative achievements into practice, create specialized scientific laboratories, high technology centers, and technology parks at higher educational institutions and research institutes [1].

The adopted Program for the Integrated Development of Higher Education System in 2017-2021 provides for specific directions for the development of education in Uzbekistan. Currently, the republic not only operates a system of continuing education, but also institutes of trainee-research-applicants and senior research associates are organized.

During the new stage of development, a number of higher education institutions in the Republic of Uzbekistan doubled, a number of foreign

branches and joint faculties of leading universities is growing, work on the creation of private universities has begun, which will increase the opportunities for young people to get quality education in selected directions.

Further improvement and comprehensive development of higher education system in Uzbekistan is associated with solving the most important tasks of increasing intellectual and spiritual potential of the younger generation, widespread introduction of advanced pedagogical technologies in the educational process, establishment and expansion of promising partnerships between educational institutions of the country and foreign scientific and educational institutions; formation of target parameters for the training of personnel with higher education, strengthening of scientific potential of higher educational institutions, further development of university science, strengthening of its integration with academic science, increasing efficiency and effectiveness of research activity of teaching staff, involvement of gifted students in scientific activities and many other tasks.

In accordance with the Law "On Science and Scientific Activity" adopted in the Republic of Uzbekistan on October 29, 2019, one of the main areas of the sphere of science and scientific activity is to achieve competitiveness and effectiveness of the national economy through the development of science and scientific activity [2].

It should be noted that in the Republic of Uzbekistan a lot of attention is paid to creating favorable conditions for attracting young people to scientific activities. In this regard, the most important normative legal acts have been adopted, in particular, they include the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan from July 19, 2018 "On measures on further improvement of the system of attracting young people to the scientific sphere", the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan from "On the establishment of Youth Innovation Center under the Ministry of Innovative Development of the Republic of Uzbekistan", Decree of the President of the Republic of Uzbekistan from May 3, 2019 "On measures on organization of continuous system for identifying gifted youth and training highly qualified personnel", Decree of the President of the Republic of Uzbekistan from August 30, 2019 "On measures on improvement of the system of attracting young people to science and support its initiatives."

The state supports scientific associations of young scientists in scientific organizations and educational institutions, in production and other industries. According to the current Law of the Republic of Uzbekistan "On science and scientific activity", appropriate conditions must be created in scientific organizations and higher educational institutions for young

scientists and students to carry out scientific activities. In the Republic, the main directions for the development of scientific activity are identified, talented youth are selected for their participation in the development of promising innovative projects, measures have been taken to organize training centers, special classes, new training courses; to create specialized schools, boarding schools.

The integration of science and education is currently necessary to implement competency-based approach. Today it is important to improve the quality of the educational process, improve teaching methods, and strengthen students' motivation for scientific research in various fields of activity. At the same time, as a result of critical analysis of the results of the work carried out to study the state of the higher education system in Uzbekistan, a number of shortcomings in educational process were identified in 2017. It was established that in a number of higher educational institutions the scientific and pedagogical potential is still at a low level, educational and methodological and informational support of educational process does not meet modern requirements, and material and technical base needs to be systematically updated.

As it is noted in the Decree of the President of the Republic of Uzbekistan Shavkat Mirziyoyev "On Measures for Further Development of Higher Education System" from April 20, 2017 "in higher education system, work is not being carried out properly to establish close partnerships with leading foreign specialized scientific and educational institutions, widespread introduction of advanced international experience in the educational process, especially on the basis of internships and advanced training of promising teachers and scientific personnel in these institutions" [3].

It is necessary to raise the level of demand for graduates in the labor market. For this, it is necessary to stimulate the interaction of universities and production in the scientific and technical sphere, create necessary conditions that would enable entrepreneurial organizations to more widely attract future specialists to fulfill production tasks.

Also, according to the document, educational and research organizations that carry out applied and innovative research and development work carried out on the orders of enterprises are exempted from paying corporate income tax, single tax payment, value added tax and mandatory contributions to state trust funds up to January 1, 2022 [4]. The creation of modern educational laboratories in the universities of the Republic, as well as inter-university research laboratories, contributed to the increase in the scientific potential of universities. So, in 2018, 672 research projects worth 47.9 billion soums were completed at universities of the republic, including 187 basic research projects, 337 applied research projects, 142 innovative projects [5].

Further improvement and comprehensive development of the higher education system is associated with the solution of the most important tasks for widespread introduction of advanced pedagogical technologies in the educational process, establishment and expansion of promising partnerships between educational institutions of the country and foreign scientific and educational institutions, formation of target parameters for training personnel with higher education, and strengthening the scientific potential of higher educational institutions, the further development of university science, strengthening its integration with academic science, increasing the efficiency and effectiveness of research activities of the teaching staff, involving gifted students in scientific activities and many other tasks.

Today relevant issue is an improvement of legal regulation of the development of the integration processes of science, education and production. The program for the comprehensive development of the higher education system for the period 2017–2021 provides for the development and approval of a regulatory framework governing the development of international cooperation between higher educational institutions and foreign partner educational and scientific institutions [6].

In particular, it provides for the approval of the organization of international cooperation between higher educational institutions and specialized foreign research and educational institutions-partners, including the determination of mechanisms and forms for implementing multilateral partnerships (exchange, internships, joint educational programs, etc.), introduction of mechanisms for assessing the effectiveness of partnerships between higher education institutions educational institutions with foreign educational and scientific institutions. Wide attraction to the educational process in higher educational institutions and industry centers of retraining and advanced training of highly qualified foreign scientists, teachers and specialists will be of great importance in solving the tasks.

In the Republic there conducted targeted work to create a regulatory framework for the organization of integrated master's education programs by developing and implementing, together with leading foreign universities, training of masters in the agreed double degree programs; implementation of academic mobility programs to send lecturers and promising young teachers for short-term (semester) internships at foreign universities and educational research centers; implementation of student exchange programs to send prospective undergraduates for studying at foreign higher educational institutions and business schools.

In Uzbekistan serious measures are taken to strengthen and modernize material and technical base of higher educational institutions, providing

them with modern educational and scientific laboratories with necessary equipment, means of modern information and communication technologies.

Development of economic sectors based on the achievements of scientific and technological progress, rapid development of high-tech industries, acceleration of the introduction of innovative scientific developments in mass production - all this presents new requirements for science, education and business. Their effective development depends on timely implementation and use of innovative technologies.

Currently, measures have been taken on further development of basic research, creating a solid foundation for applied research and innovative developments. To this purpose, the Decree of the President of the Republic of Uzbekistan "On measures to further improve the activity of the Academy of Sciences, organization, management and financing of research activities" was adopted. It defines specific tasks for the further development and strengthening of scientific potential of the country, strengthening the role of science in socio-economic development.

In order to ensure accelerated innovative development of all sectors of the economy and social sphere, the Decree of the President of the Republic of Uzbekistan "On establishment of the Ministry of Innovative Development of the Republic of Uzbekistan" was adopted. The Ministry will act as a single customer of state scientific and technical programs and projects, coordinate the work of government bodies, research, information and analytical institutions and other organizations to implement innovative ideas, ensure development of innovative curricula, technologies, and make proposals for radical improvement of scientific and research activities, system of introducing its results into practice [7].

In the conditions of commercialization of scientific developments, a system of innovative entrepreneurship was established in the conditions of commercialization of scientific developments according to the scheme: "scientist - bank - entrepreneur".

As part of commercialization of scientific developments, projects were prepared with a total value of 149.5 billion soums, volume of developed scientific products exceeded 18 billion soums.

Grant competitions are held on the basis of the state order. This contributes to the targeted use of funds allocated for the development of science and expansion of international cooperation.

The development of economic spheres with the assistance of science is facilitated by ongoing thematic competitions, thereby supporting new inventions by scientists and researchers. For example, in 2019, on the basis of the state order, tenders were announced for 187 relevant thematic projects, 766 projects were submitted (on average, 4 projects per project

order). According to the results of scientific examination, 117.2 billion soums were allocated for 147 projects [8].

In order to additionally finance research and innovation projects, the World Bank reached an agreement on attracting \$ 50 million of concessional loans allocated for commercialization.

By concluding business contracts for the provision of educational services in the sphere of entrepreneurial activity with various business structures, higher educational institutions have broad prospects for the application of scientific achievements in industry.

It should be concluded that the acceleration of the processes of integration of scientific, educational and industrial activities will contribute to increasing the competitiveness of economy of the Republic of Uzbekistan, and potential for training scientific personnel meeting international standards will increase.

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