

DECREE
PRESIDENT OF THE REPUBLIC OF UZBEKISTAN
**ON APPROVAL OF THE CONCEPT FOR THE DEVELOPMENT OF
THE HIGHER EDUCATION SYSTEM OF THE REPUBLIC OF
UZBEKISTAN UNTIL 2030**

In order to identify priority areas for systemic reform of higher education in the Republic of Uzbekistan, to elevate the process of training independently thinking, highly qualified personnel with modern knowledge and high spiritual and moral qualities to a qualitatively new level, to modernize higher education, to develop the social sphere and economic sectors based on advanced educational technologies:

1. Approve:

a) The Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030 (hereinafter referred to as the Concept) in accordance with [Appendix No. 1](#), providing for:

development of public-private partnerships in the field of higher education, increasing the level of coverage of higher education to more than 50 percent based on the organization of activities of state and non-state higher educational institutions in the regions, and the creation of a healthy competitive environment in the field;

ensuring the establishment of the National University of Uzbekistan and Samarkand State University as flagship higher education institutions of the country;

inclusion of at least 10 higher educational institutions of the republic in the first 1,000 positions of the list of higher educational institutions in the ranking of internationally recognized organizations (Quacquarelli Symonds World University Rankings, Times Higher Education or Academic Ranking of World Universities), including the National University of Uzbekistan and Samarkand State University - in the first 500 positions of this list;

gradual transition of the educational process of higher educational institutions to a credit-modular system;

the introduction of advanced standards of higher education, in particular the gradual transition from an education system whose curricula are aimed at acquiring theoretical knowledge to an education system aimed at developing practical skills based on international experience;

raising the content of higher education to a qualitatively new level, establishing a system for training highly qualified personnel

capable of finding their place in the labor market and making a worthy contribution to the stable development of the social sphere and economic sectors;

ensuring the academic independence of higher education institutions;

the gradual implementation of the “University 3.0” concept, which provides for a close connection between education, science, innovation and activities to commercialize the results of scientific research in higher education institutions;

the creation of technology parks, foresight centers, centers for transfer technologies, start-ups and accelerators in higher education institutions through the widespread attraction of foreign investment, expansion of the scale of paid services and other extra-budgetary funds, and their elevation to the level of scientific and practical institutions for forecasting and researching the socio-economic development of relevant industries, spheres and regions;

Ensuring the publication of articles by professors, lecturers, research fellows, doctoral students, and undergraduate and graduate students of higher educational institutions in reputable international scientific journals with a high impact factor, increasing the citation rates of articles, as well as the gradual inclusion of national scientific journals in the international database of scientific and technical databases;

transformation of the higher education system of the Republic of Uzbekistan into a hub for the implementation of international educational programs in Central Asia;

increasing the investment attractiveness of higher education, attracting foreign educational and scientific technologies;

the implementation of five initiatives, including a set of measures aimed at creating additional conditions for the education and upbringing of student youth;

improving the infrastructure and material and technical base of higher education institutions, including through the widespread use of preferential funds from international financial institutions, the gradual transition of higher education institutions to a self-financing system and ensuring their financial stability;

establishing mutually beneficial cooperation between education, manufacturing enterprises and research institutes;

increasing the level of coverage of higher education for groups of the population in need of social protection, including

persons with disabilities, with the improvement of infrastructure conditions for them;

b) "Roadmap" for the implementation in 2019 of the Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030 in accordance with [Appendix No. 2](#).

To determine that the phased implementation of the Concept is carried out through an annually separately approved "Roadmap" based on the target parameters and main directions for the relevant period.

2. Agree with the proposal of the Ministry of Higher and Secondary Specialized Education and the State Inspectorate for Supervision of the Quality of Education under the Cabinet of Ministers of the Republic of Uzbekistan on the establishment of the Republican Council of Higher Education in the form of a non-governmental non-profit organization (hereinafter referred to as the Council) on the basis of the Public Council under the Ministry of Higher and Secondary Specialized Education and the Council of Rectors of Higher Educational Institutions of Uzbekistan.

3. Define the main tasks of the Council:

development of proposals to improve the quality of higher education, enhance curricula and introduce modern pedagogical technologies by conducting surveys among professors, teachers and students, studying the opinions of the public and employers, and analyzing advanced international experience;

an objective assessment of the effectiveness of the system of public administration of higher education and the conditions created for professors and teachers, the effectiveness of the teaching and educational methods they use in the educational process;

establishing effective public control over the provision of high quality education, close cooperation between the media and other civil society institutions in this area;

preparation of proposals for the development and implementation of a set of measures aimed at ensuring openness, transparency and impartiality, eliminating the causes and conditions of corruption in the activities of higher education institutions;

development of proposals and recommendations on the substantive and targeted organization of activities for the training, retraining and advanced training of personnel in the higher

education system, as well as the development of scientific and innovative activities of teachers;

preparation of proposals for conducting an analysis of the effectiveness of international relations, assessing the efficiency of joint programs, developing new forms of cooperation, attracting foreign professors and teachers and compatriots abroad;

development of recommendations for the application of advanced international experience in assessing the effectiveness and improving the activities of higher education institutions based on its study in the context of higher education institutions.

4. Establish that:

See previous edition.

The results of the Council's activities, as well as the developed proposals and recommendations, are considered at meetings of the Board of the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan together with the members of the Council at least twice a year and, based on the results of the consideration, appropriate decisions are made;

(paragraph two of clause 4 as amended by the Decree of the President of the Republic of Uzbekistan dated July 3, 2023 No. UP-107 - National Database of Legislation, July 4, 2023, No. 06/23/107/0441)

See previous edition.

proposals and recommendations prepared by the Council are subject to mandatory review by the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan, ministries and departments that include higher educational institutions, as well as higher educational institutions that provide comprehensive assistance to the Council in fulfilling the tasks assigned to it and provide it with the required information;

(paragraph three of clause 4 as amended by the Decree of the President of the Republic of Uzbekistan dated July 3, 2023 No. UP-107 - National Database of Legislation, July 4, 2023, No. 06/23/107/0441)

The Council submits quarterly information to the Administration of the President of the Republic of Uzbekistan and the Cabinet of Ministers on proposals and recommendations developed based on the results of its activities and the development of the higher education system.

The Cabinet of Ministers of the Republic of Uzbekistan shall, within two weeks, adopt a Government decision on organizing the activities of the Council.

See previous edition.

5. In order to accelerate the process of studying and implementing advanced foreign experience aimed at improving

the educational process, introduce a procedure for travel on business trips for senior staff of state higher educational institutions (with the exception of higher educational institutions of the State Security Service, the National Guard, the Ministry of Internal Affairs, the Ministry of Defense, and the Customs Committee under the Ministry of Economy and Finance) to foreign countries, with notification of the relevant ministry and agency of subordination.

(paragraph one, clause 5 as amended by the Decree of the President of the Republic of Uzbekistan dated July 3, 2023 No. UP-107 - National Database of Legislation, July 4, 2023, No. 06/23/107/0441)

At the same time, the senior staff of higher education institutions, before leaving on business trips to foreign countries, post basic information on the website of the higher education institution, in particular, the name of the country, the purpose and plan of the visit, and, based on the results of the business trip, a report on the work performed and expenses, submitted to the Council of the higher education institution.

See previous edition.

6. To the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan:

(clause 6 as amended by the Decree of the President of the Republic of Uzbekistan dated July 3, 2023 No. UP-107 - National Database of Legislation, July 4, 2023, No. 06/23/107/0441)

by December 1, 2019, develop and submit for approval to the Cabinet of Ministers of the Republic of Uzbekistan an action plan providing for the inclusion by 2030 of at least 10 higher educational institutions of the republic in the first 1,000 positions of the list of higher educational institutions in the ranking of internationally recognized organizations (Quacquarelli Symonds World University Rankings, Times Higher Education or Academic Ranking of World Universities), including the National University of Uzbekistan and Samarkand State University - in the first 500 positions of this ranking, with the introduction of modern mechanisms of state support for these higher educational institutions;

annually, before December 1, based on a thorough study of the results of the implementation of the approved Roadmap for the outgoing year, develop and submit for approval to the Cabinet of Ministers of the Republic of Uzbekistan a draft Roadmap for the implementation of the Concept in the following year;

Conduct continuous monitoring of the implementation of roadmaps with quarterly submission of its results to the Cabinet of Ministers of the Republic of Uzbekistan.

7. Determine the sources of funding for the activities provided for by this Decree:

funds of the State Budget of the Republic of Uzbekistan;

See previous edition.

funds of the Fund for Development of Higher Educational Institutions under the Ministry of Higher Education, Science and Innovation of the Republic of Uzbekistan;

(paragraph three of clause 7 as amended by the Decree of the President of the Republic of Uzbekistan dated July 3, 2023 No. UP-107 - National Database of Legislation, July 4, 2023, No. 06/23/107/0441)

extra-budgetary funds of higher educational institutions;

charitable donations from individuals and legal entities;

loans (credits), grants from international financial organizations, foreign countries and other donors;

other sources not prohibited by law.

8. Assign personal responsibility to:

Deputy Prime Minister of the Republic of Uzbekistan A.A. Abdukhakimov - for the effective organization of activities and interaction of the responsible ministries and departments in the implementation of the Concept and Roadmaps, and the timely elimination of deficiencies identified during the monitoring of the implementation of the Roadmaps;

The Chairman of the Council of Ministers of the Republic of Karakalpakstan, khokims of the regions and the city of Tashkent, heads of responsible ministries, departments and other organizations - for the timely, high-quality and complete implementation of the measures provided for in the Concept and Roadmaps;

Minister of Higher and Secondary Specialized Education of the Republic of Uzbekistan I.U. Majidov - for achieving the target indicators of the Concept.

9. The National Information Agency of Uzbekistan and the National Television and Radio Company of Uzbekistan shall organize presentations and thematic programs in the media to widely cover the goals and objectives of this Decree.

10. The Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan, together with interested ministries and departments, shall, within two months, submit to the Cabinet of Ministers proposals on amendments and additions to legislation arising from this Decree.

11. Control over the implementation of this Decree shall be assigned to the Advisor to the President of the Republic of

Uzbekistan A.A. Abduvakhitov and the Deputy Prime Minister of the Republic of Uzbekistan A.A. Abdughakimov.

President of the Republic of Uzbekistan Sh. Mirziyoyev

Tashkent city,

October 8, 2019

No. UP-5847

APPENDIX No. 1

to the Decree of the President of the Republic of Uzbekistan dated October 8, 2019 No. UP-5847

CONCEPT

development of the higher education system of the Republic of Uzbekistan until 2030

Chapter 1. General Provisions

The Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030 (hereinafter referred to as the Concept) was developed based on the needs of the social sphere and economic sectors by ensuring strong integration of science, education and production in order to improve the quality of education, train competitive personnel, effectively organize scientific and innovative activities, develop international cooperation, and also in pursuance of the Resolution of the President of the Republic of Uzbekistan dated July 11, 2019 No. PP-4391 "On measures to introduce new management principles into the system of higher and secondary specialized education."

The concept defines the strategic goals, priority areas, objectives, and stages of development of higher education in the Republic of Uzbekistan in the medium and long term and serves as the basis for the development of sectoral programs and a set of measures in this area.

Chapter 2. The current state of the higher education system and existing problems

Currently, there are 114 higher education institutions operating in the republic, 93 of which are domestic and 21 are foreign higher education institutions and their branches. Specifically, over the past three years, six higher education institutions and 17 branches, as well as 14 branches of foreign higher education institutions, have been established.

Based on proposals from personnel customers, 329 educational areas and 582 master's degree specialties were included in the Classifier of Higher Education Areas and Specialties.

In the 2019/2020 academic year, 59 higher education institutions introduced correspondence courses, and 10 higher education institutions introduced evening courses.

The number of students studying in bachelor's degree programs at higher education institutions in the republic is 410 thousand people, and in master's degree programs - 13 thousand, and has increased by 1.7 times over the past three years.

54.8 percent of students are studying in the fields of education and specialties of the humanities and pedagogical sphere of knowledge, 25.2 percent in industrial and technical fields, 5.2 percent in the social sphere, economics and law, 5.9 percent in agriculture and water management, 4.4 percent in health care and social security, and 4.5 percent in the service sector.

40.8 percent of master's degree students are studying in the humanities and pedagogical sphere of knowledge, 23.3 percent in industrial and technical fields, 13.3 percent in the social sphere, economics and law, 5.9 percent in agriculture and water management, 13.5 percent in health care and social security, and 3.2 percent in the service sector.

Admission parameters for the 2019/2020 academic year amounted to 121 thousand, an increase of 18 percent compared to the previous year and 92 percent compared to 2016.

Since the 2018/2019 academic year, 16 higher education institutions in the republic have launched training programs based on joint education programs in collaboration with foreign higher education institutions.

The Center for the Development of Nanotechnology, the Research Institute of Semiconductor Physics and Microelectronics, the Institute of Biophysics and Biochemistry, and the Scientific and Practical Center for Intelligent Software Systems were established at the National University of Uzbekistan.

Currently, the number of academic councils at higher education institutions awarding academic degrees is 84 (48 in 2017). Over the past three years, as a result of 1,693 professors defending doctoral dissertations, the number of teaching staff at higher education institutions holding academic degrees has reached 9,636 (including 2,130 Doctors of Science (DSc) and 7,506 Candidates of Science (PhD). The scientific potential of higher education institutions in the republic has also increased by 5.1 percent.

Over the past three years, 1,611 professors and lecturers from higher education institutions have completed internships and

professional development at foreign higher education institutions. As part of this international collaboration, 112 young people were accepted into master's programs and 51 into doctoral programs at foreign higher education and research institutions.

Through the El-Yurt Umidi Foundation, 46 professors and teachers were provided with internships in Canada, Great Britain, and Italy.

In 2017–2019, 1,154 highly qualified foreign teaching staff and scientists were involved in the educational process (94 from the USA, 445 from European countries, 299 from Asian countries, 316 from the CIS countries).

The basic salaries of professors with a doctoral degree in higher education institutions have increased by 3.2 times compared to 2016.

Today, the higher education system faces a number of pressing challenges and shortcomings in the area of training highly qualified personnel that require solutions, including:

a) in the area of higher education coverage and quality assurance of education:

the level of enrolment in higher education remains low;

the content of current qualification requirements, curricula and programs is not aimed at developing practical skills in graduates; the proportion of non-core subjects in the curricula remains high;

the work on training personnel in cooperation between higher education institutions and personnel customers is ineffectively organized, and the participation of employers in the formation of the content of higher education is insufficient;

students have not developed critical thinking skills, independent information search and analysis;

Practical training at manufacturing enterprises is ineffectively organized, and the qualification level of trained specialists does not sufficiently meet modern labor market requirements;

due to the low level of mastery of foreign languages and information and communication technologies by professors and teachers, their professional skills lag behind the requirements of today;

There remains a shortage of educational literature, a significant portion of which does not meet modern requirements, and work to improve the quality of educational literature and the

use of foreign literature as additional or alternative literature is not sufficiently organized;

Transparent mechanisms for conducting subject Olympiads in higher education institutions have not been implemented, and systematic work with Olympiad winners has not been established;

there are no mechanisms for selecting students to higher education institutions among talented young people;

the system of advanced training for teaching staff is ineffectively organized; in particular, highly qualified professors and teachers are not involved in conducting classes at advanced training institutions; when recruiting students for advanced training, the potential of the students is not taken into account;

There is a need for further development of activities to strengthen the spiritual and moral content, patriotic education of youth based on respect for national values, humanism and high spiritual ideas, and the immunity of youth to alien ideas and ideologies in higher education;

b) in the field of scientific research and innovation activities:

the scientific activities of higher education institutions are organized without taking into account the prospects for the socio-economic development of regions; activities to forecast innovative development based on analysis have not been established;

the effectiveness of the widespread implementation of the results of innovative activities and research, the commercialization of scientific developments, and the involvement of talented young people in scientific research work is insufficient; strong integration of education, science and production is not ensured;

the scientific potential of higher educational institutions is only 36.4 percent;

the average age of workers with an academic degree is 49 years (Doctors of Science - 56 years, Doctors of Philosophy and Candidates of Science - 43 years) and remains high, the proportion of retirees among Doctors of Science is 45 percent;

research work is not aimed at solving existing problems in the social sphere and economic sectors;

In recent years, the citation rate of articles published in reputable international scientific journals has been decreasing;

effective mechanisms for stimulating the activities of professors, teachers, researchers and young scientists engaged in research activities have not been created;

c) in the area of strengthening the material and technical base of higher educational institutions:

the capacity of student dormitories, libraries, educational workshops, laboratories, sports and fitness facilities and social infrastructure facilities does not meet existing needs; a significant part of them does not have a material and technical base that meets today's requirements;

the level of equipment of higher educational institutions with modern educational and scientific laboratories is insufficient; the share of educational and laboratory equipment that meets international standards is only 10 percent, while the educational process is insufficiently provided with laboratory materials (reagents, chemical glassware, components, biological material and other objects);

the bulk of the financial costs of higher education institutions is spent on salaries; insufficient funds are allocated for upgrading educational and scientific laboratories and repairing buildings and structures;

d) in the area of increasing the attractiveness and ensuring the competitiveness of higher education at the international level:

Higher educational institutions of the republic are not included in the first 1,000 positions of the list of higher educational institutions in the ranking of internationally recognized organizations, their official websites are not included in the 1,000 positions in the list of the international Webometrics ranking;

educational programs and the system of assessing students' knowledge are not adapted to international standards;

existing student accommodation and social infrastructure facilities are not adapted to the needs of international students;

Propaganda efforts to attract foreign citizens to study in our country, including PR projects (organizing days of higher educational institutions of Uzbekistan, holding presentations, etc.) are not organized at the required level; there is no interactive virtual platform in this area;

Chapter 3. Strategic goals and priority areas for the development of the higher education system

The development of the higher education system is based on the achievement of the target indicators specified in [the appendix](#) to this Concept.

The strategic goals of the development of the higher education system are:

improving the quality of training highly qualified personnel, developing human capital based on the requirements of the labor

market for the modernization and stable socio-economic development of the country;

creating the necessary conditions for increasing the level of coverage by higher education, training highly qualified, creative and systemically thinking personnel based on international standards, capable of independently making decisions to realize their intellectual abilities and develop into spiritually developed individuals;

creating a healthy competitive environment, increasing attractiveness and ensuring the competitiveness of the sector at the international level.

The development of the higher education system is carried out on the basis of the following priority areas based on long-term target objectives:

expanding the coverage of higher education, improving the quality of training of specialists with higher education;

implementation of digital technologies and modern methods in the educational process;

increasing the effectiveness of scientific research activities in higher education institutions, widely involving young people in scientific activities, and creating an innovative scientific infrastructure;

increasing the effectiveness of spiritual, educational and upbringing work;

active involvement of personnel customers in the process of training highly qualified specialists;

ensuring financial independence and stability of higher education institutions, strengthening material and technical support;

systemic development of higher educational institutions and improvement of their management activities;

combating corruption, introducing effective mechanisms to ensure transparency;

increasing the investment attractiveness of the higher education system, ensuring its recognition at the international level and competitiveness.

§ 1. Expanding the coverage of higher education, improving the quality of training of specialists with higher education

In order to expand the coverage of higher education and improve the quality of training of specialists with higher education, the following activities are being carried out:

creation of a competitive environment in higher education through the development of public-private partnerships in the field of higher education, the organization of activities of state and non-state higher educational institutions in the regions, as well as branches of reputable foreign higher educational institutions with the attraction of investments;

the creation of the Presidential University as a leading center of education and science, preparing highly professional personnel of independently thinking patriots, possessing modern knowledge and skills in combination with international standards and national traditions;

the formation of target parameters for the training of specialists with higher education, taking into account investment, regional and industry programs, the requirements of boards of trustees and technological changes at the international level, the optimization of areas and specialties of education, while paying special attention to the development of STEAM areas (exact sciences, technology, engineering, creative arts and mathematics);

the gradual introduction of independent establishment of admission parameters by higher education institutions on the basis of a paid contract, based on the capacity, scientific potential and other key indicators of higher education institutions;

implementation of mechanisms for the phased distribution of personnel training parameters based on a state grant through a competitive selection process among higher education institutions;

further strengthening of guarantees for women's rights to obtain higher education, ensuring the priority of the principles of gender equality in obtaining education, conducting extensive regular propaganda work in mahallas, comprehensive schools, academic lyceums and professional colleges aimed at the widespread involvement of women in higher education;

ensuring harmony and continuity of general secondary, secondary specialized and higher education programs in order to achieve continuity of education;

development of mechanisms and a phased transition of the curricula of higher education institutions to a credit-modular system;

the formation of educational programs based on the interests of students, in accordance with the needs of personnel customers by developing curricula aimed at developing creative thinking and practical skills in students based on individual

educational trajectories, the gradual granting of academic independence to higher education institutions upon their approval;

increasing the proportion of hours allocated to self-education, introducing methods and technologies aimed at developing students' skills in independent learning, critical and creative thinking, systems analysis, entrepreneurial skills, introducing methods and technologies aimed at strengthening competencies in the educational process, focusing the educational process on the development of practical skills, widespread introduction into the educational process of advanced pedagogical technologies, curricula and teaching materials based on international educational standards in this area;

improving and ensuring the objectivity of technologies for the system of assessing students' knowledge, including the development of methods for contactless assessment of students' knowledge;

development of mechanisms for the development of healthy competition among students in mastering subjects;

a gradual reduction in the number of subjects in the curriculum at the expense of non-core subjects, as well as the inclusion of related subjects in the list of elective subjects;

increasing attention to the quality of training of personnel in the humanities and pedagogical fields, revision and improvement of curricula and programs in the areas and specialties of pedagogical education based on advanced international experience, development of skills in the application of modern pedagogical technologies in the educational process among students studying in this field, improvement of the infrastructure of pedagogical education, provision of all general education schools in the regions with highly qualified professional teaching staff who have mastered foreign languages;

improvement of the system of targeted training, retraining and advanced training of highly qualified teaching staff for higher educational institutions based on advanced international experience;

regular professional development of specialists responsible for educational and methodological activities in higher educational institutions;

increasing the proportion of specialized subjects taught in foreign languages in areas and specialties of education;

continuous improvement of curricula and programs for master's degrees to develop in master's students the ability to

conduct high-level scientific research, conduct teaching activities, manage, think critically, and perform systems analysis;

improving the quality of educational literature, simplifying the procedure for creating modern educational literature, accelerating the acquisition and translation of the latest foreign literature, expanding the use of foreign literature as additional or alternative educational literature, updating library collections on a regular basis;

improving the mechanisms for distributing the annual teaching load of professors and teachers selected on a competitive basis and holding copyrights to educational literature, while providing for an increase in the time allocated to the creation of educational literature in their overall annual workload, at the expense of hours allocated to conducting classes;

increasing the types of educational services provided to students with disabilities and improving their quality, developing inclusive processes in education, introducing adaptive technologies;

improving the quality of educational services provided to students by studying students' opinions about classes (feedback), as well as developing a system of mutual visits (peer review);

development of self-education activities among students by creating platforms for professional communication between professors and teachers in various fields of science, the wide involvement of students in the process of ensuring the quality of education and the introduction of a "tutoring" system of organizational and methodological assistance;

conducting an annual national survey among students on a national scale in order to study the opinions of student youth about their academic activities, problems, lifestyle, educational process and the conditions created based on the experience of foreign countries;

attracting highly qualified foreign professors, teachers and specialists to higher education institutions, to retraining and advanced training courses for conducting educational, pedagogical and scientific work, as well as compatriots abroad who are active and have achieved significant success in the field of education and science, who have expressed a desire to contribute to the development of the country, with the creation of academic and infrastructural facilities for them in this area;

creation of effective mechanisms for attracting highly qualified professors, teachers, and scientists to the educational

process, development of a system for assessing their performance based on certain indicators;

systematically increasing the proportion of professors, teachers and students in higher education institutions who hold certificates from national and international assessment systems and have mastered foreign languages;

improving the professional skills of professors and teachers through their training in master's and doctoral programs, internships, and advanced training in foreign countries with the assistance of the El-Yurt Umidi Foundation;

wide involvement of practicing specialists with many years of work experience in the educational process, systematic organization of internships for professors and teachers at enterprises and organizations in the relevant industry;

improvement of the regulatory, legal and educational-methodological foundations for the implementation of systems of continuous professional development and retraining for specialists in the social sphere and all sectors of the economy, and the widespread use of distance learning opportunities in this area;

development of training of personnel in correspondence and evening forms of education in higher educational institutions with the aim of ensuring the training of students without interruption from work, while introducing modern educational technologies based on digital technologies;

improving state educational standards to ensure that the economy meets modern requirements;

development and enhancement of a methodological framework for organizing meaningful industrial, qualification and other types of student practice;

implementation of internal academic mobility programs and mechanisms for the mutual exchange of experience between higher educational institutions of the republic;

development of academic mobility programs for professors, teachers and doctoral students within the framework of cooperation with foreign higher education institutions;

improving internal control and accountability mechanisms in improving the quality of education in higher education institutions;

the gradual introduction into practice of the experience of admitting applicants to higher education institutions who have certificates of national and international assessment systems in subjects corresponding to the areas of education, taking into

account the average grade in the certificate of graduates in the process of admission to higher education institutions;

expansion of the list of subjects for which certificates of the national assessment system are provided, support for the activities of state and non-state institutions providing these services;

Improving the procedures for conducting subject Olympiads in higher education institutions, ensuring that transparency and evaluation mechanisms comply with the criteria of international Olympiads and competitions.

§ 2. Implementation of digital technologies and modern methods in the educational process

In order to introduce digital technologies and modern methods into the educational process, the following activities are being carried out:

organization of a system for training highly qualified engineering and technical personnel for the digital economy;

creation of additional conditions to ensure strong integration of modern information and communication and educational technologies, continuous development of professional skills of teaching staff;

individualization of educational processes based on digital technologies, development of distance learning services, widespread implementation of webinar, online, "blended learning", and "flipped classroom" technologies into practice;

organization of distance learning programs based on modern information and communication technologies;

the practical implementation of the E-MINBAR platform with the ability to online observe and master lectures, practical classes and seminars, as well as download them to electronic storage media, the use of cloud technologies in educational processes;

widespread implementation of a system of electronic libraries with the possibility of remote use, expansion of opportunities for continuous professional development of students by organizing their use of library collections and databases after completing their studies at higher educational institutions;

accelerating the creation of national electronic educational resources, organizing work on the translation of foreign electronic educational resources, gradually increasing the share of electronic resources in the educational process, creating electronic educational literature, as well as a system for posting information on electronic resources in libraries using a QR code for the purpose of downloading electronic educational literature to mobile devices;

creation of an electronic database of scientific and technical information consisting of conference materials, final qualifying works, master's and doctoral dissertations of higher educational institutions, widespread implementation of the use of an anti-plagiarism system in order to maintain the novelty of scientific and technical information in the future;

development of the use of modern software products in the educational process, widely used at the international level, based on the specifics of the areas and specialties of education;

a sharp reduction in the number of various reports and information received from higher education institutions, the abandonment of the use of paper forms for their compilation, a gradual transition to the "Electronic University" platform, which ensures the transfer of the management system, educational process, libraries and document flow to an electronic format, the introduction of an electronic system for monitoring the effectiveness of the activities of participants in the educational process;

establishing the maintenance of a constantly updated electronic database (Student Record System), reflecting information about teaching staff, undergraduate and graduate students, and doctoral students of higher educational institutions, with the creation of a national system on its basis;

The introduction of a unified, regularly updated information platform for higher education—the "Higher Education Management Information System"—with the assistance of international financial organizations, reflecting educational, methodological, regulatory, and statistical data in the field of higher education, as well as information on the provision of state interactive services, providing for the possibility of receiving online announcements and applications for competitions held to fill vacant positions.

§ 3. Increasing the effectiveness of scientific research, widespread involvement of young people in scientific activities, and the formation of an innovative scientific infrastructure in higher educational institutions

In order to increase the effectiveness of scientific research, to widely involve young people in scientific activities, and to develop an innovative scientific infrastructure in higher education institutions, the following activities are being carried out:

the gradual implementation of the "University 3.0" concept, which provides for a close connection between education, science,

innovation and activities to commercialize the results of scientific research in higher education institutions;

the creation of technology parks, foresight centers, centers for transfer technologies, start-ups and accelerators within higher education institutions through the widespread attraction of foreign investment, expansion of the scale of paid services and other extra-budgetary funds, ensuring their activities in research and forecasting the socio-economic development of relevant industries, spheres and regions;

achieving the implementation of scientific and innovative activities by professors, teachers, research fellows, doctoral students, master's and bachelor's degree students in the created technology parks;

the creation of spin-off and spin-out enterprises based at higher education institutions engaged in the practical implementation of the results of scientific research by creating new products, equipment and technologies with high commercialization potential based on start-up projects using extra-budgetary funds, and the development of academic entrepreneurship;

ensuring the development of science in combination with advanced achievements based on the analysis of the results of international scientific research using the international information and analytical system "SciVal";

implementation of mechanisms to support activities related to the publication of articles in reputable international scientific journals;

ensuring the gradual inclusion of scientific journals of higher education institutions in Scopus, ScienceDirect and other international scientific and technical databases;

development of fundamental, applied and innovative scientific research, preservation of existing and creation of new scientific schools, strengthening their human resources potential, while stimulating the broad involvement of talented young people in science;

the introduction of a system of material incentives, using extra-budgetary funds, for scientists, professors, teachers, and young research fellows with a high Hirsch index (h-index)—an indicator indicating the international recognition of the results of scientific activity through the publication of articles in prestigious scientific journals included in the international database of scientific and technical information;

improving the quality of scientific research conducted in higher educational institutions, creating mechanisms for providing them with statistical, technical and other information, and adopting relevant regulatory and legal acts in this area;

achieving an optimal ratio of the teaching staff of higher educational institutions in terms of the age of employees holding academic degrees and titles;

involving scientists from research institutions in the educational process and scientific supervision, ensuring the implementation and defense of scientific work at the master's and doctoral levels in these research institutions;

specialization of scientific research in each higher educational institution in the areas of narrow and related subjects (in the context of faculties, departments and laboratories), adapting them to the needs of production and regional development, identifying promising scientific areas that have a comparative advantage, increasing the proportion of highly qualified professors, teachers and students in these areas;

improving the efficiency of the Uzbek-Japanese Youth Innovation Center at the Tashkent State Technical University, the Educational and Practical Textile Technopark at the Tashkent Institute of Textile and Light Industry, and the Khorezm Innovation Technopark at Urgench State University;

the creation of 7 inter-university research laboratories in the areas of "Cellular and Molecular Biotechnology", "Medical Genetics", "Ecophysiology", "Materials Science", "Energy-Saving Technologies, Control and Automated Systems", "Construction Materials", and "Food Products and Technologies" with the aim of improving the infrastructure of innovation activities through the widespread attraction of preferential funds from international financial institutions;

ensuring the implementation and development of modern scientific research at the Center for the Development of Nanotechnology at the National University of Uzbekistan, the Research Institute of Semiconductor Physics and Microelectronics, the Institute of Biophysics and Biochemistry, and the Scientific and Practical Center for Intelligent Software Systems;

development of international cooperation in the field of science, establishment of active cooperation between the relevant institutes of the Academy of Sciences of the Republic of Uzbekistan with authoritative foreign higher educational and research

institutions, as well as domestic higher educational institutions with the widespread use of the mentoring model;

accelerating the scientific activity of professors and teachers by reducing the number of various journals and educational and methodological documents they must maintain;

directing research work towards innovative solutions to existing problems in the social sphere and economic sectors, including at the regional level, and a broad study of problems in related sciences;

identification, recruitment to academic lyceums, selection to higher educational institutions, training based on advanced educational programs, as well as expanding the participation of gifted youth in subject Olympiads, increasing their interest in scientific activities, assigning qualified specialists who have achieved high results in the relevant field based on the "mentor-student" system, creating an electronic database in this area;

establishing and developing cooperation between higher education institutions and the Youth Academy and the Republican Council for Science and Technology;

increasing the scientific potential of higher educational institutions, developing a system for training scientific and scientific-pedagogical personnel through targeted doctoral studies;

development, in cooperation with foreign higher education institutions, of joint programs for awarding bilateral academic degrees;

improving the activities of postgraduate education institutions based on international experience, bringing academic councils and the system of defenses into line with international practice;

gradual transfer of powers to award academic degrees and titles to higher educational institutions;

granting independence to higher education institutions in determining the conditions for admission to doctoral programs, and paying special attention to scientific achievements when selecting applicants;

creation of a platform for remote online observation of meetings of academic councils for awarding academic degrees, while being located at higher education institutions in the regions.

§ 4. Increasing the effectiveness of spiritual, educational and upbringing work

In order to increase the effectiveness of spiritual, educational and upbringing work, the following activities are carried out:

the implementation of five initiatives, including a set of measures aimed at creating additional conditions for the education and upbringing of student youth, including attracting student youth to culture and art, physical education and sports, increasing their literacy in the use of computer and Internet technologies, widespread promotion of reading, and the development of professional skills of female students;

systematic organization of spiritual and educational work in higher educational institutions, increasing the effectiveness of measures implemented in this area, development and practical implementation of the Concept for the Development of the Spiritual and Moral Consciousness of Student Youth, aimed at developing intellectual potential, thinking and worldview, strengthening the ideological immunity of young people as a harmoniously developed generation living with a sense of patriotism, serving the interests of the people;

training patriotic, proactive young people as professionals in their field, who have mastered modern knowledge and skills, possess human qualities, and are capable of taking responsibility for solving important problems facing the state and society, using in this area teaching and education methods that require new approaches;

development of sports in higher education institutions as a value, development and implementation of measures to promote a healthy lifestyle among students;

development of legal consciousness and culture, awareness of young people about the essence and content of legislative acts, the formation of national and moral values in them along with such universal values as adherence to a healthy lifestyle, human rights, gender equality, peacekeeping, interethnic harmony, freedom of conscience, respect for the language, national customs and traditions of all nations and peoples, the affirmation of socio-political, economic activity and a strong civic position;

creating broad conditions for the social adaptation of students with disabilities, promoting ideas of inclusiveness;

systematic organization of interaction between parents, mahallas and higher educational institutions in the education of youth;

improving the activities of sociological and pedagogical-psychological service groups in higher educational institutions,

preparing students for family life, strengthening propaganda work to strengthen the family;

creating conditions in educational institutions for meaningful leisure time for student youth by motivating them to master professions, acquire new knowledge, work on themselves, purposefully use the achievements of modern technology, and develop entrepreneurial skills;

prevention of cases of student youth falling under the negative influence of various information influences and alien ideas, as well as the commission of socially dangerous acts by them, the widespread use of effective methods of teaching and education, modern information and communication technologies with the aim of uniting young people in the name of the future of our Motherland, the organization of spiritual and educational events taking into account the interests of student youth and support for their initiatives;

Developing cooperation between higher education institutions and comprehensive schools within the framework of the concept "School - a center of spirituality and enlightenment" on issues such as the formation of a spiritual and educational worldview, increasing legal literacy, career guidance, and preparing students for independent living based on the mentoring model.

§ 5. Active involvement of personnel customers in the process of training highly qualified specialists

In order to actively involve personnel customers in the process of training highly qualified specialists, the following activities are being carried out:

formation of the content of curricula and programs, as well as the distribution of hours across specialty subjects in cooperation with personnel customers based on the specifics of areas and specialties of education based on the latest achievements of science and technology;

the formation of topics for final qualifying theses, master's and doctoral dissertations based on the problems of the real sector of the economy and regions (oblasts, rayons, cities, mahallas, regional facilities), as well as the transition to an in-depth study of topics in a narrow scope;

strengthening the ties between higher education institutions and manufacturing enterprises, as well as organizing their activities in the form of a cluster;

establishing the activities of higher education institutions in regions with developed production and economic zones;

creation of conditions for students to work in manufacturing enterprises and organizations in the relevant industry during their free time from the educational process;

Ensuring mutually beneficial cooperation between higher education institutions and manufacturing enterprises, organizations, and research institutions in the area of implementing scientific and technical orders and grants, searching for new solutions to existing problems in production, actively involving experienced practitioners in the educational process, and the widespread use of production infrastructure and practical examples in education;

organization of the activities of branches of departments of specialized subjects at manufacturing enterprises, organization of the activities of structural divisions of manufacturing enterprises, technology parks, business incubators and co-working centers at higher educational institutions, stimulation of effective cooperation between education and production through the implementation of technology transfer;

the introduction of a system for improving the qualifications of teaching staff in the production process, as well as the introduction into practice of effective mechanisms for attracting specialists with extensive experience in production, but who do not have an academic degree, to the educational process, in particular as visiting and honorary teachers, while the hiring of these specialists for relevant positions is carried out in accordance with their experience in a particular field;

improving the procedure for the effective organization of educational classes and student practice at industrial enterprises, while introducing a system for issuing certificates confirming practical skills;

creation of mechanisms for targeted educational programs, professional courses for advanced training and retraining, and training at higher education institutions by attracting experienced practitioners from production based on requests from personnel customers;

the creation of "career centers" whose activities are aimed at comprehensively facilitating internships and student employment, developing a list of potential employers and cooperation, as well as productively using the potential of former graduates based on reforming the structure of higher education institutions;

support for the activities of centers for assessing the knowledge and skills of graduates of higher educational institutions;

establishing mutually beneficial cooperation between personnel customers, research and higher education institutions on issues such as conducting scientific work and commercializing its results, developing the activities of business incubators and venture financing, and improving relevant regulatory legal acts on these issues;

the introduction of a system of binary (double) defenses for the award of a doctoral degree (basic doctorate) in order to ensure the prompt implementation of the scientific results of doctoral dissertations into practice, to increase and stimulate the interest of young people in scientific activity, and to enhance the prestige of scientific work;

determination of the size and duration of grants based on the commercialization and timing of the practical implementation of scientific results in competitions for fundamental, applied, and innovative research;

formation of the composition of the boards of trustees by recruiting personnel, large employers, public figures and entrepreneurs who have achieved significant success in the relevant industry;

introducing a tradition of conducting an annual national survey among personnel customers at the republican level in order to determine whether graduates' qualifications meet production requirements and to identify and eliminate any shortcomings in personnel training.

§ 6. Ensuring financial independence and stability, strengthening the material and technical support of higher educational institutions

In order to ensure financial independence and stability, and to strengthen the material and technical support of higher education institutions, the following measures are being taken:

gradual transition of higher education institutions to a self-financing system, ensuring financial stability, improving the remuneration system, introducing effective and transparent financing mechanisms;

a gradual transition to a system of independently establishing the size of a paid contract for bachelor's degree programs (master's degree specialties), taking into account the needs of economic sectors for personnel, as well as based on the

ranking and level of cost recovery of higher education institutions in the future;

development of the activities of higher education institutions in the export of educational and provision of additional services;

organization of construction, reconstruction and major repair works based on modern requirements, application of advanced technologies and engineering solutions in the organization of works on the use in this process of resource-saving and quickly erected structures and materials based on innovative technologies;

Providing higher education institutions with modern software products, creating effective mechanisms for the continuous provision of educational and scientific processes with educational and laboratory equipment, as well as laboratory materials (reagents, chemical glassware, components, biological material and other objects) in the required quantities;

timely provision of growing needs for student accommodation, libraries, educational workshops, laboratories, sports and recreation facilities and social infrastructure facilities, strengthening their material and technical base based on modern requirements;

creation of additional conditions for students with disabilities in the buildings of student dormitories and higher educational institutions, taking measures to provide educational institutions with the necessary literature and teaching aids for this category of students;

creation of favorable conditions for the residence and education of foreign citizens in higher educational institutions;

creation of innovative libraries, regular enrichment of their book collection with new generation educational literature;

uninterrupted provision of high-speed Internet to higher education institutions, expansion of infrastructure capabilities for independent student learning;

expanding opportunities for free use by students, teachers and young researchers of electronic educational resources, electronic catalogues and databases of modern scientific literature;

material incentives and support for students from population groups in need of social protection;

the creation of endowment funds in higher education institutions, financed by funds received from the commercialization of the results of sponsorship and research work, target capital and other funds.

§ 7. Systematic development and improvement of management activities of higher educational institutions

In order to systematically develop and improve the management activities of higher education institutions, the following activities are carried out:

a) division of higher education institutions into the following categories and determination of their development strategy, taking into account the quality and scale of personnel training:

the first category - flagship universities (National University of Uzbekistan and Samarkand State University);

the second category - regional higher educational institutions that perform the functions of a center of science and innovation;

the third category - industry-specific higher education institutions that act as support institutions for education and scientific research in their industry;

b) taking measures to transform higher educational institutions with the status of institutes into universities by expanding the scope of their activities and strengthening their institutional potential;

c) gradual consolidation of higher educational institutions based on their capacity, scientific potential and other key indicators;

d) denationalization, privatization, and the introduction of corporate governance principles in individual higher educational institutions (with the exception of higher military educational institutions) on an experimental basis, while retaining at least 51 percent of the state share;

d) increasing the prestige and activity, strengthening the responsibility of the Republican Council for Higher Education in the development and discussion of draft documents on the development of higher education, the introduction of modern mechanisms of public control in higher educational institutions;

e) optimization of management processes in the higher education system based on information and communication technologies, expansion of the scale of interactive state services;

g) the introduction of principles of strategic planning in the development of higher education institutions, while increasing the responsibility and role of boards of trustees;

h) improving the functions of the State Inspectorate for Supervision of the Quality of Education under the Cabinet of Ministers of the Republic of Uzbekistan based on international

experience with the introduction of new mechanisms for assessing the quality of education, solving problems through an in-depth study of the results of a national survey conducted among customers of personnel and students, implementing control over the quality of education in state and non-state educational institutions using effective tools, paying attention to issues of the quality of training of graduates and their employment in their specialty;

i) determination of the necessary measures to create a non-governmental system for monitoring the quality of education and maintaining the ranking of higher educational institutions;

j) conducting a selection process for hiring and appointment to senior positions in higher education institutions from among personnel who make a worthy contribution to the development of the higher education system, applying the principles of meritocracy, which provide for a fair and objective assessment of their activities, professional qualities and special merits to the industry, strict adherence to the principles of gender equality when appointing to leadership positions;

k) increasing the efficiency of formation, targeted training and preparation of a reserve of personnel for leadership positions in higher educational institutions;

l) implementation of a mechanism for rotation of senior staff of higher education institutions.

§ 8. Implementation of effective mechanisms to combat corruption and ensure transparency

In order to implement effective mechanisms to combat corruption and ensure transparency, the following measures are being taken:

consistent continuation of the "Sphere without Corruption" project in the field of higher education, eradication of any manifestations of corruption;

the formation of higher educational institutions from among experienced, honest, conscientious, responsible professors, teachers and staff with a specific definition of their tasks;

increasing the responsibility of higher education institutions for ensuring the quality of education and accountability to society, regularly informing the general public about the quality of educational services based on the principles of transparency and objectivity;

eliminating bureaucratic factors between professors and students, increasing the transparency of assessment mechanisms, and ensuring fairness in assessing students' knowledge;

preventing instances of abuse in the acceptance of documents from applicants and those wishing to study in a master's program, conducting all professional (creative) examinations, assessing knowledge, in the processes of transfer or reinstatement in studies, enhancing the role of public councils and ensuring transparency in this area;

strengthening the authority of professors and teachers in society, taking measures to ensure the attractiveness of this profession;

Ensuring openness in the activities of the Ministry of Higher and Secondary Specialized Education of the Republic of Uzbekistan and higher educational institutions, strengthening ties with civil society institutions, and introducing operational and modern methods of providing information to the public;

ensuring transparency of the processes of advanced training, preparation and implementation of scientific research work, monitoring and control, hiring and appointment of employees, studying the activities of higher education institutions and other processes in the system;

increasing the productivity of employees in the higher education system by optimizing the teaching load of professors and teachers and the widespread introduction of modern information and communication technologies into their professional activities;

Ensuring fairness and openness in the hiring of teaching staff, conducting competitions for positions in the higher education system, assessing the performance of teaching staff at the end of the academic year, and introducing new and effective mechanisms of public control in this area;

improving compliance with current regulatory legal acts in the area of financing higher education institutions, the procedure for forming cost estimates, conducting internal financial audits, ensuring the timely identification and elimination of corruption in this process;

development and implementation of draft regulatory legal acts regulating issues of personnel reserve formation and ensuring compliance with ethical standards in the higher education system.

§ 9. Increasing investment attractiveness, ensuring international recognition and competitiveness of the higher education system

In order to increase investment attractiveness, ensure international recognition and competitiveness of the higher education system, the following activities are being carried out:

conducting systematic work to include at least 10 higher educational institutions of the country in the first 1,000 positions of the list of higher educational institutions in the ranking of internationally recognized organizations (Quacquarelli Symonds World University Rankings, Times Higher Education or Academic Ranking of World Universities), including the National University of Uzbekistan and Samarkand State University - in the first 500 positions of this list, while introducing modern mechanisms of state targeted financial support for these higher educational institutions;

increasing the participation of higher education institutions in increasing the gross domestic product of Uzbekistan and their role in shaping a positive international image of the country;

development of substantiated proposals for the harmonization of the republic's higher education system with international educational standards, adaptation of educational programs to the requirements of internationally recognized standards based on an in-depth study and analysis of advanced international experience;

increasing the proportion of educational areas and specialties, faculties where instruction is conducted entirely in foreign languages;

adoption of the relevant regulatory legal act on the admission of foreign citizens to master's and doctoral programs on the basis of an interview conducted in the manner established by the higher educational institution;

expanding cooperation with foreign countries in the development of educational services exports and improving their regulatory framework;

implementation of the "Study in Uzbekistan" project, creation of a special web portal promoting the educational attractiveness of the country, with its regular updating with detailed and reliable information on all higher educational institutions;

adoption of a program on the strategy for forming the image of higher education and higher educational institutions based on

the creation of a system of brands and scientific traditions in education;

organization of international subject Olympiads between higher educational institutions;

expansion of activities in training personnel based on joint educational programs in cooperation with foreign higher education institutions, an increase in the number of jointly held scientific conferences and seminars, and the implementation of international scientific and educational projects;

organizing, together with higher educational institutions and research centers of developed foreign countries, international joint scientific journals, educational forums, rectors' conferences and other events;

Improving the ranking of official websites of higher education institutions in the Webometrics rating system, with regular publication of information on the employment of graduates of higher education institutions at leading enterprises and organizations, key data on areas of education and master's degree specialties, scientific and technical potential, professors and teachers, infrastructure, and results achieved by higher education institutions;

creation of branches of domestic higher educational institutions in foreign countries, implementation of joint educational programs;

improvement of the regulatory framework for the provision of consulting services by domestic and foreign agencies to attract foreign citizens to study in the Republic of Uzbekistan;

strengthening cooperation with the Agency for Information and Mass Communications under the Administration of the President of the Republic of Uzbekistan, embassies in foreign countries and international organizations, and implementing modern PR projects to create an international image of the republic's higher education system;

Strengthening ties with international financial institutions and leading international organizations to develop international cooperation in higher education and supporting innovative initiatives that serve the interests of our country's education system.

Chapter 4. Results expected from the implementation of the Concept

In the development of the higher education system of the Republic of Uzbekistan until 2030, it is envisaged to achieve the

following results by fulfilling the tasks established within the framework of the Concept:

Ensuring a higher education coverage level of over 50 percent based on the development of public-private partnerships in the field of higher education and the organization of the activities of branches of state and non-state, in particular prestigious foreign, higher educational institutions in the regions, and the creation of a competitive environment in the field;

transformation of the National University of Uzbekistan and Samarkand State University into flagship higher education institutions of the country;

achieving the inclusion of at least 10 higher educational institutions of the country in the first 1,000 positions of the list of higher educational institutions in the ranking of internationally recognized organizations (Quacquarelli Symonds World University Rankings, Times Higher Education or Academic Ranking of World Universities), including the National University of Uzbekistan and Samarkand State University in the first 500 positions of this list;

gradual transition of the educational process in higher education institutions to a credit-modular system;

the introduction of advanced standards of higher education, in particular the gradual transition from an education system whose curricula are aimed at acquiring theoretical knowledge to an education system aimed at developing practical skills based on international experience;

raising the content of higher education to a qualitatively new level, establishing a system for training highly qualified personnel capable of taking their place in the labor market and making a worthy contribution to the stable development of the social sphere and sectors of the country's economy;

ensuring the academic independence of higher education institutions;

the gradual implementation of the "University 3.0" concept, which provides for a close connection between education, science, innovation and activities to commercialize the results of scientific research in higher education institutions;

the creation of technology parks, foresight centers, centers for transfer technologies, start-ups and accelerators in higher education institutions through the widespread attraction of foreign investment, expansion of the scale of paid services and other extra-budgetary funds, and their elevation to the level of scientific and

practical institutions for the study and forecasting of the socio-economic development of relevant industries, spheres and regions;

Ensuring the publication of articles by professors, lecturers, research fellows, doctoral students, and undergraduate and graduate students of higher educational institutions in reputable international scientific journals with a high impact factor, increasing the citation rates of articles, as well as the gradual inclusion of national scientific journals in the international database of scientific and technical databases;

transforming the higher education system of Uzbekistan into a hub for the implementation of international educational programs in Central Asia;

increasing the investment attractiveness of higher education, attracting foreign educational and scientific technologies;

development based on five initiatives, including a set of measures aimed at creating additional conditions for the education and upbringing of student youth;

improving the infrastructure and material and technical base of higher education institutions, including through the widespread use of preferential funds from international financial institutions, the gradual transition of higher education institutions to a self-financing system and ensuring their financial stability;

establishing mutually beneficial cooperation between education, manufacturing enterprises and research institutes;

increasing the level of coverage of higher education for groups of the population in need of social protection, including persons with disabilities, and improving infrastructure conditions for them.

APPENDIX

to the Concept of Development of the Higher Education System of the Republic of Uzbekistan until 2030

TARGET INDICATORS

Concepts for the development of the higher education system of the Republic of Uzbekistan until 2030

No.	Name of indicators	Unit of measurement	By year					Responsible persons
			2019	2020	2023	2025	2030	
1.	Higher education enrollment rate	in percent (in relation to	20	25	30	35	50	Ministry of Higher and Secondary Specialized Education,

		(to the number of graduates)						Ministry of Economy and industry, Ministry of Finance
2.	Non-governmental educational institutions, including on the basis of public-private partnership conditions	number of non-governmental educational institutions	5	10	20	28	35	Ministry of Higher and Secondary Specialized Education, Ministry of Investments and foreign trade, Ministry of Foreign Affairs, State Inspectorate for Quality Control in Education, Agency for Public-Private Development partnerships
3.	Organization of training based on programs of foreign higher educational institutions (except for joint educational programs)	number of higher education institutions formed on the basis of foreign programs	23	26	31	36	45	Ministry of Higher and Secondary Specialized Education, Ministry of Foreign Affairs, State Inspectorate for Quality Control education
4.	The proportion of students studying in engineering and technical fields	in percent (in relation to the total number of students)	25	28	35	40	50	Ministry of Economy and industry, Ministry of Higher and Secondary Specialized education, Ministry of Finance
5.	Students admitted to	in percent	7	10	15	17	22	Ministry of Higher

	master's degree programs from among graduates of bachelor's degree programs	(in relation to (to graduates of bachelor's degree programs)						and Secondary Specialized education, Ministry of Economy and industry, Ministry of Finance
6.	The proportion of professors and teachers who have improved their qualifications or completed internships in foreign countries	in percent (in relation to the number of professors and teachers)	2	4	10	15	20	Ministry of Higher and Secondary Specialized Education, Ministry Foreign Affairs, "El-Yurt Umidi" Foundation
7.	The share of foreign professors and teachers attracted to higher educational institutions of the republic (excluding foreign higher educational institutions)	in percent (in relation to the number of professors and teachers)	1	2	5	8	12	Ministry of Higher and Secondary Specialized Education, Ministry Foreign Affairs, "El-Yurt Umidi" Foundation
8.	The proportion of professors and teachers teaching in advanced training courses who have improved their qualifications abroad	in percent (in relation to the number of professors and teachers teaching (at advanced training courses)	5	15	40	60	80	Ministry of Higher and Secondary Specialized Education, Ministry of Foreign Affairs, "El-Yurt Umidi" Foundation
9.	Higher educational institutions where the credit-modular system will be implemented	as a percentage (in relation to the number of higher educational institutions)	2	5	16	57	85	Ministry of Higher and Secondary Specialized Education, State Inspectorate for Quality Control in Education

10.	Share of practical classes in specialty subjects whose curricula are aimed at improving practical skills	as a percentage (relative to the number of classes)	35	45	55	70	80	Ministry of Higher and Secondary Specialized Education, State Inspectorate for Quality Control education
11.	Availability of educational and scientific literature in electronic form	as a percentage (in relation to the amount of educational and scientific literature)	20	30	50	70	90	Ministry of Higher and Secondary Specialized Education, Ministry for the Development of Information Technology and Communications
12.	Implementation of an information system for managing educational processes in higher education institutions	as a percentage (in relation to the number of higher educational institutions)	20	30	80	100	100	Ministry of Higher and Secondary Specialized Education, Ministry for the Development of Information Technology and Communications
13.	Monitoring quality assurance processes in education through the e-education management system	as a percentage (in relation to the number of higher educational institutions)	absent	20	50	100	100	Ministry of Higher and Secondary Specialized Education, State Inspectorate for Quality Control education
14.	Higher educational institutions that have implemented digital teaching technologies,	in percent (in relation to the number of higher educational institutions)	are absent	10	40	80	100	Ministry of Higher and Secondary Specialized Education, Ministry for the Development of Information

	in particular the electronic platform "E-MINBAR", online, webinar technologies						Technology and Communications	
15.	Scientific potential higher educational institutions (proportion of professors and teachers with an academic degree)	in percent (in relation to to quantity professors and teachers)	36	38	40	60	70	Ministry of Higher and Secondary Specialized Education, Ministry of Innovative Development, Higher certification commission
16.	Orientation of graduates of master's programs for scientific activities	in percent (in relation to to the number of graduates in master's degree programs)	15	29	32	38	45	Ministry of Higher and Secondary Specialized Education, Academy of Sciences, Ministry innovative development, Ministry of Finance
17.	Articles in magazines, indexed in Scopus, ScienceDirect, Web of Science and other international scientific and technical databases	number of articles in indexed journals	750	1,200	2,500	4,000	7,000	Ministry of Higher and Secondary Specialized Education, Ministry innovative development, Academy of Sciences
18.	Scientific journals of higher education institutions included in Scopus, ScienceDirect,	quantity scientific journals are absent	2	10	30	45	Ministry of Higher and Secondary Specialized Education, Ministry innovative development	

	Web of Science and other international scientific and technical databases							
19.	Professors and teachers with a Hirsch index (h-index) of 5 or more, working in higher education institutions	quantity professors and teachers	142	171	295	460	900	Ministry of Higher and Secondary Specialized Education, Ministry innovative development
20.	Share of foreign students	as a percentage (relative to the total number of students)	1	3	6	10	15	Ministry of Higher and Secondary Specialized Education, Ministry of Foreign Affairs affairs

Note: Ministries and departments that include higher education institutions are considered responsible for achieving the above-mentioned target indicators; other interested government bodies also provide assistance within the scope of their authority.

APPENDIX No. 2
to the Decree of the President of the Republic of Uzbekistan dated October 8, 2019 No. UP-5847
"ROAD MAP"

on the implementation in 2019 of the Concept for the Development of the Higher Education System of the Republic of Uzbekistan until 2030

See previous edition.

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
1.	Improving the procedure for organizing joint educational programs with foreign higher education institutions.	1. Development of a draft Government decision determining the procedure for organizing joint educational programs with foreign higher education institutions.	November 2019 December 2019	Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>) , ministries and departments, in the structure of which there are higher educational institutions

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
		2. Submission of a draft Government decision to the Cabinet of Ministers in accordance with the established procedure.		
2.	Expansion of activities in the provision of educational services by non-governmental higher education institutions, including on the basis of public-private partnerships.	1. Providing legal and methodological assistance to individuals who have expressed a desire to organize the activities of non-governmental higher education institutions, including on the basis of public-private partnerships. 2. Attracting foreign direct investment for organizing the activities of non-governmental higher educational institutions.	During 2019	Ministry of Higher and secondary specialized education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions
3.	Implementation of variable curricula and programs, development of special educational programs, taking into account the interests of students.	1. Study of advanced foreign experience in variable curricula and programs, special educational programs. 2. Development of variable curricula and educational programs, special educational programs based on international experience. 3. Identification of higher education institutions and educational areas for testing the developed curricula and programs.	October 2019 November 2019 December 2019	Ministry of Higher and secondary specialized education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions
4.	Expanding training of personnel in the natural sciences	1. Identification of the need for personnel in	December 2019	Ministry of Higher and secondary specialized education

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
	and engineering fields.	<p>the natural and engineering fields.</p> <p>2. Formation of parameters for the state order for admission to higher education institutions for the 2020/2021 academic year in the natural sciences and engineering fields.</p>		<p>(<i>Madzhidov I.</i>), Ministry of Economy and industry (<i>Khodjaev B.</i>), Academy of Sciences (<i>Yuldashev B.</i>)</p>
5.	Revision of the standards for the ratio of the maximum number of students to one teacher in full-time education.	<p>1. Develop a draft government resolution providing, starting with the 2019/2020 academic year, for a maximum student-to-teacher ratio of 1:12 by revising curricula and educational programs based on international experience, taking into account the specifics of full-time education in areas and specialties of higher education, with a subsequent gradual increase in the ratio to 1:16, as well as granting the right to councils of higher education institutions to change this ratio, if necessary, to 50 percent.</p> <p>2. Submission of the draft Government decision to the Cabinet of Ministers in accordance with the established procedure.</p>	October 2019	<p>Ministry of Higher and secondary specialized education (<i>Madzhidov I.</i>), Ministry of Finance (<i>Ishmetov T.</i>), Ministry of Economy and industry (<i>Khodjaev B.</i>)</p>
7.	Organization of activities and enhancement of the role of boards of trustees in	1. Conducting an inventory of boards of trustees of higher	November 2019	Ministry of Higher and secondary specialized education (<i>Madzhidov I.</i>),

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
	higher educational institutions of the republic.	educational institutions of the republic. 2. Based on the results of the inventory, submit proposals for boards of trustees of higher education institutions to the Cabinet of Ministers for approval.	December 2019	ministries and departments, in the structure of which there are higher educational institutions
8.	Improving the system for developing a reserve of modern management personnel for higher education institutions, preparing worthy candidates for leadership positions, and developing their knowledge and skills.	Development and submission to the Cabinet of Ministers of a draft regulatory legal act providing for: requirements for candidates included in the reserve of management personnel of higher educational institutions based on their professional competencies; identification of the level of intellectual, psychological, organizational and managerial abilities of candidates, the procedure for their assessment by using elements of a sociometric survey; targeted training of candidates recommended for leadership positions, development of their professional competencies and mechanisms for increasing their knowledge in relevant areas.	December 2019	Ministry of Higher and secondary specialized education (<i>Madzhidov I.</i>), Academy of Public Administration (<i>Azizov Kh.</i>), ministries and departments, in the structure of which there are higher educational institutions

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
9.	Development and implementation of a performance evaluation system for management personnel of higher education institutions based on key performance indicators (KPIs).	<p>1. Study of the best international practices in assessing the performance of management personnel of higher education institutions based on key performance indicators (KPIs).</p> <p>2. Development of key performance indicators for the management of higher educational institutions of the republic and the procedure for their determination.</p>	October 2019 December 2019	Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions
10.	Taking measures to increase the scientific potential of higher education institutions in prestigious international scientific and technical databases.	<p>1. Identification of scientific journals of higher education institutions with high potential, conducting organizational work for their inclusion in prestigious international scientific and technical databases.</p> <p>2. Conducting an inventory of data on higher educational institutions and professors and teachers available in prestigious international scientific and technical databases, entering data on unregistered higher educational institutions of the republic, and forming their resources.</p> <p>3. Targeted inclusion of scientific journals from higher education</p>	During 2019	Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
		institutions in prestigious international scientific and technical databases based on the distribution of articles published by scientists by field.		
11.	Effective organization of internships for students of higher educational institutions.	<p>1. Effective organization of student internships in organizations and enterprises that hire personnel, creation of conditions for internships, and development of a draft government resolution providing for improvement of this process.</p> <p>2. Submission of a draft Government decision to the Cabinet of Ministers in accordance with the established procedure.</p>	December 2019	<p>Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments,</p> <p>in the structure of which there are higher educational institutions</p>
12.	Raising public awareness of the activities of higher education institutions, including attracting young people to study in higher education institutions based on their interests.	<p>1. Creation of a web portal with systematic updating of information on educational areas and master's degree specialties of higher educational institutions, their scientific potential, professors, teachers, infrastructure and achievements.</p> <p>2. Conducting propaganda work by higher education institutions among students of schools, professional colleges</p>	December 2019	<p>Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments,</p> <p>in the structure of which there are higher educational institutions</p>

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
		and academic lyceums about educational areas, educational and laboratory facilities and other conditions, approving measures for organizing the activities of "summer schools" at higher education institutions.		
13.	Referral of graduates of higher educational institutions to work in their specialty.	<p>1. Analysis of employment by specialty of graduates of higher educational institutions.</p> <p>2. Development of an action plan for sending graduates to work in their specialty in cooperation with personnel customers.</p>	October 2019 December 2019	Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions
14.	Improving the activities of organizing spiritual, educational and upbringing work in the higher education system.	<p>1. Attracting students to literature, art, and sports, a healthy lifestyle, developing their aesthetic taste and professional ethics, and a culture of information analysis, developing a plan for spiritual and educational activities, and ensuring its implementation in all higher education institutions to instill in students a sense of dedication, love, and involvement with the fate of the Motherland.</p> <p>2. Increasing the social activity of female students, organizing and conducting systematic work to prepare them</p>	During 2019	Ministry of Higher and Secondary Specialized Education (<i>Madzhidov I.</i>), ministries and departments, in the structure of which there are higher educational institutions

No.	Name of events	Implementation mechanism	Deadlines	Responsible persons
		as specialists in a practical profession.		

(Appendix No. 2 as amended by the Decree of the President of the Republic of Uzbekistan dated March 17, 2022 No. UP-89 - National Database of Legislation, March 18, 2022, No. 06/22/89/0227)

(National Legislation Database, 09.10.2019, No. 06/19/5847/3887; 30.04.2020, No. 06/20/5987/0521; 18.03.2022, No. 06/22/89/0227; 04.07.2023, No. 06/23/107/0441)