

# AL-FARABI KAZNU UNAI HUB ON SUSTAINABILITY







#### AL-FARABI KAZNU JOURNALS – IN THE WEB OF SCIENCE DATABASE

The Bulletin series of Al-Farabi Kazakh National University were included in the "Russian Science Citation Index" on the Web of Science platform. This database now indexes 7 university journals, which is the highest indicator among higher education institutions and research institutes in Kazakhstan.

Three scientific journals of Al-Farabi KazNU, namely, the series of the Bulletin "Chemical", "Physical" and "Mathematics, Mechanics and Informatics" have been added to the list of university sources indexed in the Web of Science database.

This database already includes "International Journal of Mathematics and Physics", "International Journal of Biology and Chemistry", as well as "Eurasian Chemico-Technological Journal" and "News of the National Academy of Sciences of the Republic of Kazakhstan: Physics and Mathematics Series" published jointly with Al-Farabi KazNU.

The Russian Science Citation Index (RSCI) is a multidisciplinary database of scientific journals that provides global availability of research results included in the Web of Science.

The process of including scientific journals in the Russian Science Citation Index (RSCI) database consists of several stages of assessment, including bibliometric indicators of the journal in the Russian Science Citation Index on elibrary.ru and scientific expertise of the journals by leading scientists.

The RSCI contains exclusively the best sources that have a significant scientific value. Therefore, the inclusion of Al-Farabi KazNU Bulletin series to the Russian Science Citation Index, and indexing 7 university journals in the most authoritative Web of Science database, once again demonstrates the success of the university's strategy to improve the quality of scientific research, publication activity and scientific journals.





# THE AI-FARABI KAZNU WORKS ACCORDING TO INTERNATIONAL STANDARDS ISO

Al-Farabi KazNU successfully passed recertification audit. The purpose of the audit was to check the quality management system (QMS) of the university for compliance with the requirements of international standards ISO 9001: 2015.

The recertification audit was carried out by the auditors of the Russian Register Certification Association. As noted by the auditors, the Al-Farabi KazNU carried out a lot of work to adapt existing and create new documented procedures that regulate business processes in all areas of the university's activities. Responsible for the quality of the university developed and implemented a process of identification, assessment and risk management. Particular attention is paid to the involvement of all personnel in process management, which has a beneficial effect on the effectiveness of business processes. The system of indicative planning is successfully functioning, where target indicators-indicators are clearly defined in all areas of the university's activities. The rating system is a tool for assessing the performance of teaching staff, departments and faculties. During the audit, it was found that the system of indicative indicators is also effectively used to conduct a detailed SWOT - analysis of work at the level of departments and faculties, and to develop plans for improvements on its basis.

Based on the results of the recertification audit conducted by the auditors of

the certification association "Russian Register", it was established that process management is successfully functioning at the Al-Farabi Kazakh National University and the university's activities are controlled by a quality management system that meets the requirements of the international standard ISO 9001: 2015.

Congratulations to the team on the successful completion of the recertification audit and wish you continued success!





#### KNOW-HOW OF YOUNG SCIENTISTS TO THE AI-FARABI KAZNU

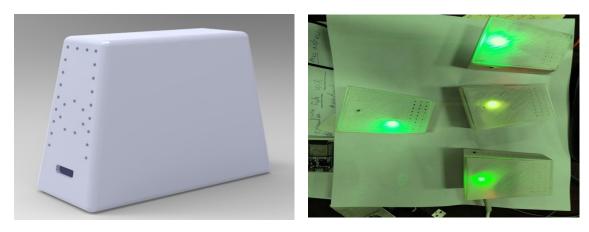
Al-Farabi KazNU undergraduates have developed a new device that measures the level of air pollution and scans the air quality in real time.

A unique device was created in the laboratory of computer science at the Research Institute "Mechanics and Mathematics" AI-Farabi KazNU together with an industrial partner LLP "Digital Alem". Young scientists have been working on a new project for about a year and a half and presented their own environmental monitoring system to the public. The know-how is a small device that analyzes the level of air pollution, connects via Bluetooth to the user's phone and transmits data to the server. The device also detects the location of a person. It weighs 150 grams and is battery operated and can be charged via the mains.

According to preliminary estimates of master's students, the cost of the device is more than thirty thousand tenge. The head of the laboratory of computer science Edil Nurakhov explained the principle of operation of the device as follows: "The modules we have developed with the help of various sensors take air and transmit data to the server via a GSM / GPRS transmitter. The server stores data in a structured database. They are processed by mathematical models that allow visualizing the ecological picture of a city on a map, determining the dynamics of pollution and making forecasts for further changes, taking into account various factors.

Young scientists of Al-Farabi KazNU note that a new invention today, when the level of pollution in Almaty is very high, is more relevant than ever. And it will find its consumer in the face of city residents and business representatives. Citizens using a portable device will be able to determine the environmental background in the premises or area of the city, and entrepreneurs will be able to select business niches to form a list of ecoproducts.

The developers of the new device emphasized that within the framework of the Smatr Siti concept, using the new device, it is possible to develop an effective tool for preserving the ecology of the city.





#### PROSPECTS FOR THE DEVELOPMENT OF DOUBLE-DEGREE EDUCATION

Al-Farabi KazNU hosted an online ceremony of signing a memorandum of cooperation between Al-Farabi KazNU and the Swiss School of Applied Sciences (Swiss-Sasem) of Economics and Management, which determined the prospects for the development of double-diploma education.

The strategic document was signed by the chairman of the boardrector of Al- Farabi KazNU Zh.K. Tuimebayev, the rector of the Swiss School of Applied Sciences, Economics and Management (Swiss-Sasem) Dominique Jordan and the president of the Swiss business school Swiss-Sasem Meirj Eskendirtegi.

Welcoming the guests, the rector of Al-Farabi KazNU Zhanseit Tuimebayev thanked them for their desire to develop mutually beneficial cooperation and noted that Switzerland is one of the main strategic partners of Kazakhstan, which is actively developing projects in many areas, including science and education. "The partnership between Al-Farabi KazNU and the Swiss School of Applied Sciences, Economics and Management is reaching a new level. We highly appreciate your experience in training specialists. I am sure that the implementation of joint programs and the involvement of highly qualified teachers and experts in the learning process will give a new impetus to the development of the university and double-diploma education," Zh.Tuimebayev said.

During the meeting, an emphasis was made on the development of human capital and the training of managers of a new formation.

During the negotiations, the parties stressed that the signed memorandum opens up wide opportunities for professional growth and development of practitioners and managers working in various fields and industries.

It should be noted that the Al-Farabi Business School, opened on the basis of the Higher School of Economics and Business of Al-Farabi KazNU, carries out MBA and DBA educational programs and is the main university provider of services in this direction. All programs of the school are aimed at training and advanced training of management personnel. In two years, the business school has concluded memorandums of understanding with many foreign universities and has graduated 36 MBA and 33 MBA in







# HIGH INDICATORS OF EDUCATIONAL PROGRAMS TO AI-FARABI KAZNU

According to the results of the subject ranking "QS World University Ranking by Subject 2021" Al-Farabi improved his indicators and strengthened his position, in which more than 1200 universities of the world were ranked in five subject areas. Compared to last year, Al-Farabi KazNU has significantly improved its indicators in the subject area "Arts and Humanities", having risen from 277 to 156th place, "Social Sciences and Management" from 351 to 257th place.Excellent performance was demonstrated by the university in the specialty "Modern Linguistics" of Al-Farabi KazNU, taking 52nd place among the best universities in the world. In particular, in the specialties: "English Language and Literature" entered the top 101- 150,"Linguistics" and "Jurisprudence" - 151-200, "Economics and Econometrics" - 251-300, "Mathematics" - 301-350 and "Physics and Astronomy" - 501-550.This rating for the first time included the specialties "History" - top 151-200, "Business and Management" - 401-450, "Computer Science and Information Systems" - 501-550, "Chemistry" - 551-600.

WORLD UNIVERSITY Discover the world's top universities. Explore the QS World University Rankings® 2020. Read more				
=200	Vanderbilt University	More	United States	
203	Sapienza University of Rome	More	Italy	
204	Scuola Normale Superiore di Pisa	More	Italy	
205	University of Reading	More	United Kingdom	
206	University of Colorado Boulder	More	United States	
=207	Al-Farabi Kazakh National University	More	Kazakhstan	
210	Contraction University of Notre Dame	More	United States	



# RECTOR AI-FARABI KAZNU MET WITH A REPRESENTATIVE OF QS

Al-Farabi KazNU was visited by the regional director of the British company QS for Russia, Eastern Europe and Central Asia Sergey Khristolyubov. Within the framework of the visit of the QS representative, a meeting was held with the Chairman of the Board - Rector of Al-Farabi KazNU Zhanseit Tuimebayev.

During the meeting, Rector Zh. Tuimebayev spoke about the new plans and directions of the university's activities, which are designed to bring the university to a qualitatively new level. Integrating into the global scientific and educational community, Al-Farabi KazNU is doing a lot of work, the goal of which is to bring the indicators closer to international ones. "In recent years, Al-Farabi KazNU has significantly advanced in the QS rating, taking 165th place in 2020. This is a convincing proof of the university's high competitiveness in the world market of scientific and educational services, which means that the university is attractive for local applicants, foreign students and professors, as well as foreign universities, which regard us as a reliable partner," said Al-Farabi KazNU rector Zh. Tuimebayev.

In turn, the regional director of QS for Russia, Eastern Europe and Central Asia Sergey Khristolyubov spoke about the significant improvement of the university's position in the "QS by Subject" subject rating in 13 areas of study, which will help increase the ranking and international recognition of the university.

During the visit, the QS Regional Director for Russia, Eastern Europe and Central Asia Sergey Khristolyubov held a session for representatives of universities in the city of Almaty, where he presented a presentation "Increasing the global competitiveness of Kazakhstani education and science". During the meeting, Sergey Khristolyubov noted that it is necessary to pay special attention to the issue of increasing the global competitiveness of Kazakhstani education and science, dwelled on the achievements of Kazakhstani universities in various fields of science, also shared information on the assessment and analysis of OS survey results and subje





# AI-FARABI KAZNU WAS THE FIRST TO BE AWARDED THE QS "5 STARS" EXCELLENCE AMONG THE UNIVERSITIES OF THE COUNTRY

According to the results of an independent assessment carried out by the authoritative international rating agency Quacquarelli Symonds (QS), Al-Farabi Kazakh National University was highly assessed and became the first and only university in the Central Asian region to receive "Five stars" of Excellence in the international "QS Stars Rating System".

The audit conducted by the QS British company evaluates universities in four key groups, which include 12 subgroups, consisting of more than 50 indicators, reflecting a wide range of university activities and its compliance with high international standards. The universities participating in the audit are awarded from one to five stars for each subgroup, and then subsequently an overall rating score is derived. Based on the results of a comprehensive assessment of QS on indicators as training, employment opportunity, research, internationalization, services, art and culture, innovation, modern languages, Al-Farabi Kazakh National University received the maximum "5 stars" score.

Assignment of the QS "Five stars" of Excellence means that Al-Farabi KazNU has a high international reputation and demonstrates leadership positions in the global scientific and educational space. The stars of excellence demonstrate the strengths of the university, highlighting the advantages and providing guidance to the partners, international experts in the field of education, both foreign and domestic applicants when choosing a university for education.

It is worth noting that there is no other university in Central Asia and Kazakhstan that has QS "Five Stars" except Al-Farabi KazNU.

Only 62 universities of the world have QS "5 Stars", among them are Harvard University, Oxford University, Cambridge University, University of Chicago, Princeton University, Columbia University that are in the world top 5, top 10 and top 20 of the international global QS WUR ranking.

Congratulations to collective of al-Farabi Kazakh National University with the high rating "5 stars" in the international rating QS Stars Rating System!





# THE SUMMIT OF FUTURE LEADERS HAS SUCCESSFULLY PASSED TO THE AI-FARABI KAZNU

The III Summit of Future Leaders "The Role of Youth in the Implementation of the Sustainable Development Goals within the Decade of Action.

The international "Summit of Future Leaders - 2021. Platform of the Reason" was organized by the Institute for Sustainable Development. Ban Ki-moon at Al- Farabi KazNU and the Secretariat of the Model United Nations Organization - "New Silk Road" with the active support of the UN Information Center in Almaty, the Representative Office of the Ministry of Foreign Affairs of the Republic of Kazakhstan, the International Organization "Helping Hand", as well as foreign diplomatic missions and international organizations accredited in Kazakhstan.

The summit was opened with a welcoming speech of the vice-rector for scientific and innovative activities of Al-Farabi KazNU of Professor Tlekkabul Ramazanov. Academician of the National Academy of Sciences Professor of the Republic of Kazakhstan. of Al-Farabi KazNU Mukhambetkali Burkitbayev, Head of the Multilateral Cooperation Department of the Ministry of Foreign Affairs of the Republic of Kazakhstan Didar Temenov, Representative of the UN Department of Global Communications in Kazakhstan Vlastimil Samek, UN Representative in India, Senior Coordinator of UNITLABS Programs Rajiv Gulati, Coordinator programs of the Center for Global Citizenship in Vienna (Austria) Julia Zimmerman, ex-director of the MDP Global Classroom Al-Farabi KazNU Rafis Abazov and others.

The online summit brought together more than 100 young leaders from different countries to discuss topical issues in the following areas: "Immunization from the Covid-19 pandemic", "Quality online education", "Gender equality and the empowerment of women", "Impact of Covid-19 to update the economy "and" Preventing online bullying ". During the event, a discussion and exchange of views of world experts and students on the methodology "Design Thinking" took place. The forum brought together young participants to exchange vision and experience, develop constructive action plans and projects.





# AI-FARABI KAZNU IN THE RATING OF UNIVERSITIES OF THE WORLD

Al-Farabi Kazakh National University takes part in the most authoritative international ratings such as QS, THE, ARES and undoubtedly occupies a leading position among Kazakhstan universities.

Another agency that recognized the superiority of Al-Farabi KazNU is the Rank Pro Worldwide Professional University Rankings, based on the opinions and assessments of top-level experts (https://www.cicerobook.com/en/). According to the results of the subject rating "Rank Pro by Subjects 2021" Al-Farabi KazNU is the only Kazakhstani university with indicators in the areas of Social and Humanities - 351-

400 place, in the direction of Mathematics - 401-500 place among the best universities in the world.

In addition, in the rating "Asia Pacific Rank Pro World Leading Universities" Al- Farabi KazNU also became the first among Kazakhstan universities, taking 176th place and entered the TOP-200 universities of the Asia-Pacific region.

The organizers of the ranking, the Global World Communicator (GWC), use seven objective and reliable indicators to rank the world's leading universities: the quality of the faculty; publications in highly rated journals; number of highly cited scientific articles; number of international patents; university graduates who hold positions in 2000 of the world's leading public companies; the quality of education.





#### SCHOOL OF SMART TECHNOLOGIES OPENED

Scientists and professors from Kazakhstan, Germany, Greece, Bulgaria, Latvia, Russia and Mongolia are participating in the project "Innovative Approach to the Master's Program in Smart Cities Technologies" Erasmus SMARTCITY.

The goal is to exchange experience in the development and creation of smart technologies and universities, as well as to present the process of transformation of higher education.

The rector of the Al-Farabi Kazakh National University Zhanseit Tuimebayev said that on the way to the SMART University, Al-Farabi KazNU entered the final stage of transition to a digital system. "Currently, the technical equipment of the university is in full swing. The campus will become a completely comfortable environment for students and staff. All business processes and communication systems are being optimized, and individual service networks are being automated. In addition, the Ministry of Education and Science of the Republic of Kazakhstan is integrating various automation systems, "the rector said.

The head of the university spoke about the transition of the university to a digital system of work. All digital services on campus are currently being updated. Special receivers and other smart technologies are used to control all buildings.

In addition, new teaching methods using digital technologies are being introduced within the walls of the university. This is especially important during a pandemic. The university has begun to implement "Easy Learning for All" - available anytime, on all devices. As a result, new pedagogical opportunities are opened up for teachers and professors using assessment and effectiveness tools.

The same achievements of the university were recognized by international partners, and Al-Farabi KazNU was awarded the status of a school of smart technologies. Leading scientists in the field of information, communication technologies and automation from 7 countries, including European ones, share their experience in the field of education.

During the work of the school, the best projects of Al-Farabi KazNU on the use of smart technologies were presented to the general public.

In particular, the transfer of all communications of the university to a digital system, identification technologies at the entrance to the campus, monitoring security on the campus, monitoring classes, analyzing student progress and employee productivity, smart city technologies, a "green" campus, and much more. The interest of the participants aroused and a special project "Smart greenhouse", developed by undergraduates of Al-Farabi KazNU. Schoolchildren will also be involved in the project, which is being prepared for the Republican Physics and Mathematics School. It should be noted that within the framework of the Erasmus project on the implementation of innovative approaches in master's programs and technologies of smart cities, today the Greek University is successfully implementing a double degree program. As a result, six undergraduates of Kazakhstan were educated at the International University of Greece. It is also planned to defend



master's theses on the basis of a European university and Al-Farabi KazNU.



#### RECTOR AL-FARABI KAZNU MET WITH THE AMBASSADOR OF POLAND

Chairman of the Board-Rector of Al-Farabi KazNU Zhanseit Tuimebayev met with the Ambassador Extraordinary and Plenipotentiary of the Republic of Poland to Kazakhstan Selim Khazbievich. During the negotiations, the parties discussed issues of long-term cooperation and partnership.

Today Al-Farabi KazNU closely cooperates with 18 universities in Poland. Among them are Warsaw University, Adam Mickiewicz University, Nicolaus Copernicus University in Torun, Lodz University, G. Koszalin University of Technology, Opolskiy University and other universities.

In turn, the Ambassador of Poland to Kazakhstan Selim Khazbievich stressed: "The friendly relations between our countries are acquiring new content today. Our side is always ready to support and develop joint scientific and educational projects, facilitate the exchange of experience and expand academic mobility," Ambassador Selim Khazbievich said. It should be noted that the Ambassador made a great contribution to the development of Turkic studies at our university. During the talks, the rector expressed his intention to hold joint events with the involvement of leading Polish scholars of Turkic studies in the framework of the celebration of the 30th anniversary of the Independence of the Republic of Kazakhstan.

Selim Khazbievich also accepted the proposals of the head of Al-Farabi KazNU Zh. Tuimebayev on holding joint events with the participation of Polish turkologists and giving lectures to students in the framework of the 30th anniversary of Kazakhstan's Independence.

At the end of the meeting, the rector expressed his readiness to support all initiatives in the field of science and education.





# AL-FARABI KAZNU HAS ACHIEVED ANOTHER SUCCESS

Al-Farabi Kazakh National University is recognized as the best in the Times Higher Education University Impact Rankings-2021.

For all 17 Sustainable Development Goals (SDGs) formulated by the United Nations until 2030, the university's indicators were dominant. To date, no Kazakhstani university has reached such an indicator.

The Times Higher Education University Impact Rankings (THE IR) analyzed the activities of 1,115 universities around the world. The world ranking is designed to assess the implementation of the sustainable development goals of higher education institutions.

The list of 17 goals identified by the UN includes: the elimination of poverty and hunger; healthy lifestyle; the quality of education; gender equality; rational use of water resources; clean water and sanitation for all; access to energy sources; decent work and economic growth; industry, innovation, infrastructure and other requirements.

Thus, Al-Farabi KazNU ensures economic, social and ecological balance.





# COOPERATION WITH EGYPT IS EXPANDING

In Al-Farabi KazNU, a meeting was held with the delegation of the Arab Republic of Egypt headed by the Ambassador of the Arab Republic of Egypt to the Republic of Kazakhstan Ms. Manal Yehia El Shinnavi.

During the meeting, issues of developing mutual cooperation in the field of science and education were discussed. Zhanseit Tuimebayev, Chairman of the Board-Rector of Al-Farabi KazNU, noted that there are long-standing friendly relations between the two countries, which contribute to the development of the economy, science, education, culture and other spheres. The head of the university stressed that Al-Farabi KazNU seeks to develop close cooperation with Egyptian universities and is ready to accept new students within its walls.

Today, more than 2.5 thousand foreign students study at Al-Farabi KazNU, and among them there are students from Egypt. Over the past year, four professors from this country have visited the university with lectures.

The rector of the university expressed gratitude for the opening in the Arab Republic of Egypt of the Al-Farabi Scientific and Educational Center at the University of Cairo. He also emphasized that Al-Farabi KazNU intends to continue cooperation in many areas, including joint training of specialists, implementation of academic exchange programs, professional development of teachers, development of scientific and educational programs. It was also proposed to hold joint international conferences and symposia in an online format and implement a doubledegree education program.

During the negotiations, the head of the university asked for assistance in finding ancient books, works of scientists and Arab travelers about Kazakhs, as well as rare dictionaries in Turkish and Kypchak languages, which are stored in the archives of universities and museums in Egypt.

Ms. Ambassador expressed interest in partnership with the leading university in Kazakhstan and proposed to update the Memorandum of Understanding, which was signed in 2009 between the university and the Egyptian Embassy in Kazakhstan. She also announced her readiness to support the proposals of the university leadership to expand cooperation and joint projects in the field of science, education and culture.







#### DISCUSSED SUSTAINABLE DEVELOPMENT PROJECTS

UN Resident Coordinator in RK Mikaela Friberg-Story visited Al-Farabi KazNU. During the meeting, Zhanseit Tuimebayev, Chairman of the Board-Rector of Al-Farabi KazNU, spoke about the international activities and achievements of the university in the field of science and education.

In his speech, Rector Zh.Tuimebayev noted that Al-Farabi KazNU is the only university in Kazakhstan and Central Asia that entered the top 200 best universities in the world and ranks 165th in the global QS World ranking. This year marks the 30th anniversary of Kazakhstan's independence. In this regard, the head of the university suggested holding a number of international events and conferences dedicated to this significant event. All 16 faculties and departments of the university are ready to join UN environmental projects to contribute to the sustainable development program. Scientists of Al-Farabi KazNU, in particular the faculties of biology, physics and chemistry, have been working in this direction for a long time, demonstrating specific research results that could be useful for society.

It should be noted that Al-Farabi KazNU is the only university in Central Asia that has developed its own space satellite, the activities of which are aimed at receiving, processing and disseminating remote sensing data, creating geoproducts on their basis for various sectors of the national economy.

In turn, UN Resident Coordinator in Kazakhstan Mikaela Friberg-Storey thanked the university leadership for supporting and promoting UN projects. The distinguished guest expressed interest in close cooperation with scientists from Al- Farabi KazNU. She suggested using specialized technical agencies that would help promote meaningful sustainable development projects. During the meeting, the interlocutors exchanged views on all areas of interaction between the two sides and stressed their mutual readiness to promote further deepening and expansion of cooperation. The workina meetina was also attended bv the representative of the UN Global Communications Department Vlastimil Samek.





# AL-FARABI KAZNU - LEADER IN THE NATIONAL RATING

Independent Agency for Quality Assurance in Education - The ranking determined the best multidisciplinary universities in 2021. Al-Farabi Kazakh National University is in the lead in this ranking, in the category of multidisciplinary universities of the country.

This rating is formed on the basis of an analysis of academic statistics, expert assessments and a survey of employers. Al-Farabi KazNU scored the maximum points in all evaluated indicators and once again demonstrated the high competitiveness of the university.

The IQAA Ranking is carried out on the basis of a methodology approved by international experts in the field of higher education at the conferences of the International Observatory on Academic Rankings and Excellence (IREG) in Shanghai and Bratislava. It was also published in the scientific journals "Higher Education in Europe" (London) and "Journal of Higher Education" (Shanghai).

National Institutional Ranking - IQAA Ranking allows Kazakhstani universities to determine their positions, assess the level of competitiveness of educational services, promote high-quality work of the university, and most importantly, attract more students and expand the scope of attractiveness for employers.

The results of the ranking of Kazakhstani universities are published on the official website <u>https://iqaa-ranking.kz/</u> and in the Kazakhstanskaya Pravda newspaper.





#### AL-FARABI KAZNU STRENGTHENED ITS POSITION IN THE QS WORLD RANKING

Al-Farabi KazNU, the leading university in Kazakhstan, once again demonstrated a leading position among the best universities in the world by entering the top 200 in the QS WUR ranking. In the post-Soviet space, only two universities are included in this group — Lomonosov Moscow State University (78th place) and Al- Farabi Kazakh National University (175th place).

Al-Farabi KazNU is the first Kazakh university to break into the top 200 best universities in the world and was highly appreciated by both international academic experts and domestic employers. Such achievements make it possible to be optimistic about the future and strive for higher goals.

Actively integrating into the global scientific and educational community, Al- Farabi KazNU is doing a lot of work to bring its indicators closer to the international standards of the world's leading universities. The recognition of the world academic community confirms the global competitiveness of the university, to which every member of the many thousands of Al-Farabi KazNU staff contributes.

This year, the QS WUR institutional ranking includes 1300 higher education institutions from 97 countries. It should be noted that despite the impact of the pandemic, Al-Farabi KazNU improved its position in 11 subject areas in the QS by Subject ranking. Al-Farabi KazNU also received a high mark, and became the first and only university in the Central Asian region to receive "Five Stars" of excellence in the international rating "QS Stars Ranking System".





# WORLD ENVIRONMENT DAY: THE OPEN DIALOGUE

Al-Farabi KazNU hold a round table event dedicated to the World Environment Day. The event was organized by the Ban Ki-moon Institute for Sustainable Development of the University with the support of the UN Information Office in Kazakhstan. Well-known public figures, ecologists, scientists, experts in the field of environmental protection, representatives of state bodies and non-governmental organizations took part in the open dialogue.

Al-Farabi Kazakh National University, being the UN Academic Impact Global Hub for Sustainability, actively engages the international academic community in the implementation and achievement of the Sustainable Development Goals adopted by the United Nations, one of which is the environmental protection. The following topics were under consideration at the event: «The impact of the environment on the well- being and health of children», «Restoration of the ecosystem of Kazakhstan», «The impact of environmental changes on the habitat and living conditions of domestic and wild animals».

The Chairman of the Board-Rector of Al-Farabi KazNU Dr. Zhanseit Tuymebayev sent his greetings to the event participants. He pointed out in his message that one of the global problems of the mankind is constantly deteriorating state of the environment. The increasingly active interaction between a man and nature has led to ecosystem disruptions, many of them are irreversible. Therefore, the World Environment Day, established by the UN in 1972, is one of the ways to attract the attention of the world community to the problems of nature.

At the meeting, Commissioner for the Rights of the Child Mrs. Aruzhan Sain emphasized the importance of environmental protection to preserve the health of the nation. She noted that negative environmental consequences negatively affect, first of all, children and expectant mothers, who are the most vulnerable and at risk. Solving environmental problems should be a priority for our society and the state.

The representative of the UN Department of Global Communications in Kazakhstan Mr. Vlastimil Samek also emphasized the active role of youth and students in eco-movement and the achievement of the Sustainable Development Goals.





#### COOPERATION WITH TURKEY WILL BE STRENGTHENED

Chairman of the Board - Rector of the Al-Farabi Kazakh National University Zhanseit Tuimebayev met with the Consul General of the Republic of Turkey in Kazakhstan Ali Riza Akinci.

Opening the meeting, the rector of Al-Farabi KazNU Zhanseit Tuimebayev noted that Turkey, the first to recognize the independence of our country, today is an important and reliable partner of Kazakhstan. "Cooperation and strong ties between the two states are based on centuries-old bonds of brotherhood and are a shining example of friendship and strategic partnership," the rector said. It was noted that Al-Farabi KazNU has established close relations with many Turkish universities, and the common history, cultural and spiritualties between the countries has become an impetus for the rapid development of relations in all spheres. During the conversation, the head of the university spoke about the work of scientific institutes and centers of Al-Farabi KazNU, innovative projects of scientists, and also invited famous Turkish scientists to the university to give lectures.

In turn, the Consul General of the Republic of Turkey in Kazakhstan Ali Riza Akinci expressed interest in closer cooperation with the leading university in Central Asia and proposed to organize joint projects to translate the works of Al-Farabi, Abay, Khoja Ahmed Yassawi into Turkish. In addition, during the meeting, the parties discussed issues of cooperation in many areas. In particular, within the framework of the program of double-degree academic mobility, special attention was paid to the development of education and science in accordance with modern requirements in the areas of advanced training for mentors, the creation of joint research projects, the training of specialists in the field of tourism and the exchange of experience.

The head of the university expressed confidence that the meeting will mark the beginning of a new stage of cooperation between the universities of the two countries, which will become a golden bridge for the development of international science and education.





# UNIVERSITY SIGNED A MEMORANDUM ON COOPERATION WITH THE INTERNATIONAL TURKISH ACADEMY

Today the International Turkic Academy and the Al-Farabi Kazakh National University signed a memorandum of mutually beneficial cooperation.

The solemn ceremony was attended by the Chairman of the Board - Rector of Al-

Farabi KazNU Zhangseit Tuimebayev, President of the International Turkic Academy Darkhan Kydyrali, prominent Turkologist Osman Fikri Sertkaya, famous scientist from the Republic of Azerbaijan Abulfaz Guliyev, Director of the Abay Research Institute at Zhangara Dadebaev University and other famous scientists and representatives intelligentsia.

The memorandum will allow the parties to initiate joint events on agreed topics in the field of science, exchange experiences, share important information and scientific publications, conduct seminars and trainings.

Under the terms of this memorandum, in the future, students and applicants of Al- Farabi KazNU will undergo a scientific internship at the



International Turkic Academy.





# EFFICIENT LAMP BASED ON NANOTECHNOLOGY

With the development of civilization, the demand for all forms of energy is growing from year to year. Electricity tariffs are constantly increasing due to the increase in energy consumption and the reduction of surface reserves. Improving energy efficiency at the household level, energy saving depends on the consumer. However, scientists are also involved in solving this problem.

For example, scientists at Al-Farabi Kazakh National University have modernized the technology of energy-saving lamps and developed a new model of energy-saving lamps. Its main feature is the improvement of the technical characteristics of fluorescent lamps with the help of nanotechnology.

The energy-saving lamp is made in the National Open Nanotechnology Laboratory at

Al-Farabi KazNU. According to the project manager, Candidate of Physical and Mathematical Sciences, laureate of the State Prize of the Republic of Kazakhstan Merlan Dosbolayev, there are no significant changes in the technology of lamp production. The main thing is the efficient use of energy resources.

- Our laboratory studies plasma physics and engineering. Plasma can be obtained in different conditions. The most suitable laboratory plasma is obtained by gas discharge. A gas discharge is the passage of an electric current through a gaseous medium. The resulting gas discharge plasma emits light. The result of our work is to increase the light intensity of the discharge and create a new type of energy-saving lamps, - says the project manager.

When studying the various physical properties of gas discharge plasma in the laboratory, scientists have noticed that the inclusion of micro and nanoparticles in their composition increases several times. In other words, the luminosity of a gas discharge increases without changing the power consumption.





# PERSPECTIVE MEMORANDUM

In Al-Farabi KazNU, a memorandum of cooperation was signed between the State Institution "Kazselezashchita" of the Ministry of Emergency Situations of the Republic of Kazakhstan and the NJSC " Al-Farabi Kazakh National University ". The

document was signed by the Chairman of the Board - Rector of Al-Farabi KazNU Zh. Tuimebayev and Chairman of the State Institution "Kazselezashchita" K. Kokrekbaev. The parties noted the main tasks of bilateral cooperation - the creation of favorable conditions for the exchange of ideas, information and technologies, the organization of joint research within the framework of agreed priority areas and programs. This memorandum will provide an opportunity to carry out joint activities in educational and research activities and improve the qualifications of employees, as

well as implement new developments and projects.

The head of the university stressed that using the broad capabilities of the University's Earth Remote Sensing Center, specialists will be able to obtain accurate data and prevent dangerous natural and man-made phenomena in all industries, thereby minimizing risks in emergency situations. With the help of remote sensing, specialists within the framework of the memorandum will work on the draft Road Map "Comprehensive plan for ensuring the village, landslide and avalanche safety 2020- 2022." During the meeting, an emphasis was also placed on organizing an automated monitoring system for hazardous areas and moraine-glacial lakes using GIS technologies.

As the chairman of the State Institution "Kazselezashchita" K.N. Kokrekbayev, the activities of Kazselezaschita are associated with ensuring reliable protection of the population, economic facilities and the territory of the Republic of Kazakhstan from the impact of hazardous natural phenomena (mudflows, avalanches, landslides). Mountainous regions occupy about 15% of the country's territory. A large number of settlements are under threat, including the city of Almaty, Shymkent, Taraz, Esik, Talgar, Kaskelen, Sarkand, Zharkent, Tekeli, Merke and others (more than 150). More than 4 million people live in the zone of possible negative impact

from hazardous phenomena. Therefore, the memorandum signed at Al-Farabi KazNU will be of great benefit not only to society, but also to the country.







# SUMMER SCHOOL FOR STUDENTS OF THE UNIVERSITY OF TSUKUBA

A summer online school for students of the University of Tsukuba, organized under the Campus in Campus Agreement, was held at the Al-Farabi Kazakh National University at the Department of the Far East. In the department of Japanese studies at the Faculty of Oriental Studies of Al-Farabi KazNU, the organization of "summer" and "winter" schools for students of partner universities in Japan has become a good tradition. In the context of a global pandemic, they are held online. The signed cooperation agreement between universities allows universities to exchange scientific and educational services, as well as share experience on research projects in the humanities and social sciences, as well as methods for studying the Japanese language.

This time, students of the University of Tsukuba studied under the program "Regional Studies. Language, history and culture of Central Asia ". The main coordinator of the summer school was the senior lecturer of the department, Ph.D. Zh.E. Ashinova.

For two weeks, Japanese students studied the topics: "Kazakhsta's policy in Central Asia", "Policy reforms in Central Asia at the end of the 20th century", "The economic situation in Central Asia at the end of the 20th century, the impact of the global crisis", "Diplomatic relations of Kazakhstan with Central Asia "," Similarities of the Kazakh and Japanese languages "," The concept of happiness in the Japanese linguistic culture ", etc.

PhD, Associate Professor T. Ninomiya, Senior Lecturer E.A. Akhapov, PhD

B.K. Akyn, PhD Sh.T. Saudanbekova, Ph.D., Associate Professor L.T. Balakaeva, Candidate of Historical Sciences, Associate Professor J.E. Ashinova, associate professor D.V. Men, senior teachers S.K. Borankulov and A.M. Nurelov.

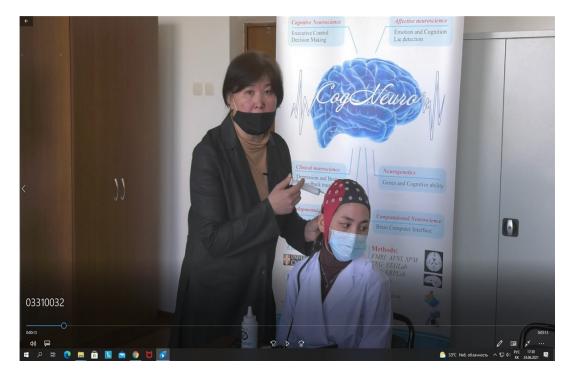
During the lecture, Japanese students were interested in the ancient history and culture of the Kazakh people, their customs and worldview. It was important for foreign students to get information from the primary source, in addition to books. During the discussion, the students noted the similarity of the Kazakhs with the people of Japan. It should be noted that every year the demand for lectures by teachers of Japanese studies is growing. Currently, it is planned to organize a number of lectures not only at the University of Tsukuba, but also in other universities of the L





#### «EEG/MRT STUDY OF THE BRAIN DEVELOPMENT, EMOTIONAL-COGNITIVE FUNCTIONS, AND GENETIC MARKERS IN DIFFERENT AGE GROUPS»

Electroencephalographic equipment ANT-Neuro (Netherlands) was purchased for the ongoing research project «EEG/MRT study of the brain development, emotional-cognitive functions, and genetic markers in different age groups». EEG equipment based on new technology will allow to conduct experiments research in the field of Neuroscience based on international standards.





#### MEETING WITH SCIENTISTS OF THE FRENCH CIRAD CENTER

On June 25, 2021, at the Faculty of Geography and Environmental Sciences, a meeting was held with the staff of the French Center for Agricultural Research and International Development CIRAD.

Alexandre Ickowicz, Director of the Department of Livestock and Veterinary Medicine (CIRAD-EMVT), Center for International Cooperation in Agronomic Research and Development.

Véronique Rayot is Orano's representative in Central Asia.

The meeting was held with the participation of the Dean of the faculty Salnikov V.G., Head of the UNESCO Chair for Sustainable Development Bazarbayeva T.A., Deputy Heads of the Chairs for Scientific and Innovative Activity and International Cooperation Musagalieva A.N., Department of Geography, Land Management and Cadastre; Temirbaeva K.A., Department of Cartography and Geoinformatics; Rysmagambetova A.A., UNESCO Chair for Sustainable Development.

The main issue during the meeting was the discussion of joint research activities in the field of ecology, land use and soil research. As a result of the meeting, it was decided to strengthen cooperation

through the exchange of information and further planning of joint events between the French Center for Agricultural Research for International Development CIRAD and Al-Farabi KazNU.





#### COOPERATION WITH UNIVERSITIES OF THE KYRGYZ REPUBLIC

A memorandum of cooperation was signed between the Al-Farabi Kazakh National University and the J. Balasagun Kyrgyz National University (KNU). The agreement was signed during a meeting between the Chairman of the Board-Rector Zhanseit Tuimebayev and the rector of the Zh.Balasagun KNU Kanat Sadykov in Bishkek (Republic of Kyrgyzstan).

Rector of Al-Farabi KazNU Zhanseit Tuimebayev thanked his colleague for the warm welcome and expressed confidence that the signed bilateral agreement will contribute to expanding the partnership between the two universities. During the meeting, the parties discussed topical issues of bilateral cooperation in the field of science and education, as well as the possibility of opening a branch of Al-Farabi KazNU in Bishkek. The head of the country's leading university spoke about the university, its faculties and informed that the educational institution was included in the Top 200 universities in the world.

KNU Rector Kanat Sadykov noted the symbolism of the visit of the Al-Farabi KazNU delegation, which will open a new page of partnership between the two universities. "I am deeply convinced that cooperation between the two universities will be fruitful and long-term and will help prepare qualified and competitive specialists," said Rector K. Sadykov. Within the framework of this memorandum, the heads of the two universities also signed an agreement on the implementation of a double degree master's program in philology (Turkish language and literature). The curriculum was developed by the dean of the Faculty of Oriental Studies of the Al-Farabi Kazakh National University Paltore Yktiyar Moldatoreuly, the head of the department of TURKSOY Al-Farabi KazNU Umut Kydyrbaeva and the dean of Kyrgyz philology of the KNU Baktybek



Zhayloobaev. Thus, studying undergraduates will be issued double diplomas.



# BRANCH OF AL-FARABI KAZNU WILL OPEN IN BISHKEK

The delegation of Al-Farabi KazNU, headed by the Chairman of the Board- Rector Zh.K. Tuimebayev paid a working visit to the Kyrgyz Republic.

During the visit, at the governmental level, the head of the country's leading university met with the Deputy Chairman of the Cabinet of Ministers of the Kyrgyz Republic Zh. Bakashova, the Minister of Education and Science of the Kyrgyz Republic B. Kupeshev with the support of the Ambassador Extraordinary and Plenipotentiary of the Republic of Kazakhstan to the Kyrgyz Republic Rapil Zhoshybayev. The parties discussed issues of cooperation in the field of higher education and research activities between the two countries.

In order to further develop and strengthen cooperation in the field of education and science, the parties agreed to intensify cooperation between Al-Farabi KazNU and universities of the Kyrgyz Republic, to initiate the participation of the teaching staff of higher educational institutions and researchers in conferences, symposia, seminars, round tables, which are held in two countries. And also to involve teachers of Al-Farabi KazNU and higher educational institutions of the Kyrgyz Republic to conduct classes in universities of both countries within the framework of academic mobility and exchange educational materials.

It should be noted that following the results of the 9th meeting of the Kazakh- Kyrgyz Intergovernmental Council, it was decided to develop a project for the branch of Al-Farabi KazNU in the Kyrgyz Republic. During the working visit, the meeting of the rector of Al-Farabi KazNU Zh.Tuimebayev with acting Mayor of Bishkek Baktybek Kudaibergenov. The parties discussed the issues of opening a branch of the Al-Farabi Kazakh National University in Bishkek.

The head of Al-Farabi KazNU spoke about the activities and achievements of the university and informed that the educational institution was included in the Top 200 universities in the world.

In turn, Baktybek Kudaibergenov noted the importance of this project for the capital, which will open up new opportunities for student







#### AL-FARABI KAZAKH NATIONAL UNIVERSITY IS THE LEADER IN THE INTERNATIONAL RANKING "IAAR EURASIAN UNIVERSITY RANKING" 2021

According to the results of the international ranking of universities "IAAR Eurasian University Ranking (IAAR EUR)" 2021, conducted by the Independent Agency for Accreditation and Rating "(IAAR), Al-Farabi KazNU was recognized as the first and best university among universities in Kazakhstan, Russia, Kyrgyzstan, Belarus, Ukraine, Azerbaijan and Moldova.

The three leaders included the al-Farabi Kazakh National University, the Financial University under the Government of the Russian Federation, and the St. Petersburg State University of Architecture and Civil Engineering.

The IAAR EUR International Ranking ranks universities on the basis of four indicators: the quality of education (20%), the scientific potential of the university (30%), the international recognition of the university (20%), the academic reputation of the university (30%) and the IAAR EUR ranking methodology approved by international experts from the international IREG audit (Observatory on Academic Ranking and Excellence).

The IAAR EUR ranking assesses the competitiveness of universities in accordance with the latest global trends, the high positions of universities in this ranking allow attracting a larger number of foreign applicants, increasing the level of internationalization of education and the image attractiveness of not only the universities themselves, but also the country as a whole. Participating for the first time and being highly appreciated in the international rating, Al-Farabi KazNU has once again demonstrated its high competitiveness and successful integration into the global scientific and educational space.





#### FARABI BUSINESS SCHOOL: COLLABORATION OF HISTORY AND INNOVATION!

The creation of an effective strategy for the development and management of business education in Kazakhstan is one of the key problems. The presence of a high-quality system of business education provides an opportunity for businessmen, entrepreneurs, managers not only to reproduce, but also to develop the socio-cultural capital, economy and business of Kazakhstan in conditions of uncertainty and a difficult transition period. In such conditions, the role of business schools, responsible for the training of entrepreneurial and management skills, undoubtedly increases. Today, successful business schools are separate structures at research universities, with their own team, where full-time teachers play the role of a key stakeholder, their own modern infrastructure that can serve real business.

On the eve of the anniversary year of Al-Farabi, the Al-Farabi Kazakh National University also opened its Farabi business school. The main task of the business school is to train entrepreneurs and business leaders capable of responding to the modern challenges of globalization of the world market and managing the development of a new innovative knowledge-based economy. Today the business school implements educational programs Master of Business Administration (MBA), Doctor of Business Administration (DBA), as well as professional development programs for managers. Now Farabi business school is in the process of formation. The Business School has planned a set of programs for training managers of different levels - from novice managers to managers and business owners. In the new academic year, several new author's MBA and DBA educational programs are being prepared for the start, such as personnel management, sports, education, tourism and hospitality.

President K.K. Tokayeva, during his visit to Farabi business school, noted the importance of the synergistic effect of business education and consulting, which allows developing proactive management competencies of managers and entrepreneurs. The implementation of such tasks is provided by a new training format. Now Farabi business school is taught by business coaches with extensive experience in business and corporate consulting, lecturers with academic recognition.





# AL-FARABI KAZNU - UNIVERSITY OF THE YEAR

According to the results of the international competition "University of the Year

- 2021" held by the Canadian Committee for the Study of International Achievements and the Regional Center for Eastern Europe and Asia (International Achievements Research Center), Al-Farabi KazNU was recognized as the winner. In a letter from the director of the competition, Dr. Michael Finnen, it was noted that the university received an international certificate in the category "Management and Leadership" for outstanding achievements in education and science.

This competition is based on research and ongoing monitoring, content analysis of media and Internet sources, as well as recommendations of colleagues from universities. research and educational centers, independent scientists, researchers and teachers. The international competition provides higher education institutions with opportunity to demonstrate their achievements to the world an community.

For the first time participating and taking an honorable place in this competition, Al-Farabi KazNU demonstrated a bright and confident victory, high academic competitiveness, attractiveness of the university and results in strengthening strategic partnership in the global educational space.





#### **COOPERATION IS EXPANDING**

Recently, before the beginning of the new academic year 2021-22, at the Department of the Far East of the Oriental Studies Faculty of the Al-Farabi Kazakh National University. There was a meeting with guestsdoctors from the Dongsan Medical Center (Director Choi Eunju) in Almaty. During the meeting, the ceremony of awarding korean masks (KF94) from the Dongsan Medical Center, which opened in 1995 in Almaty, took place.

The history of the Medical center "Dongsan" in Korea begins in 1899, since the medical house "Chechungwon" was opened by a medical doctor-missionary (Dr. Woodbrige O.Johnson, 1869-1951) in Daegu, located in the southern part of the Republic of Korea. The medical directions of this Medical Center "Dongsan" include ophthalmology, obstetrics and gynecology, dermatology, neurology, dentistry and urology, and the main hospital is located on the territory of Keimyung University in Daegu.

The Department of the Far East (Korean Studies) was provided with 1,000 korean masks in the amount of 2,000\$. They will be useful for students and teachers of the department who start classes in an offline format from the autumn semester in a coronavirus situation. For the Department of the Far East, the Dongsan Medical Center is a new partner of cooperation, which will continue in the future. Congratulations to the Department of the Far East (Korean Studies)!





#### COOPERATION WITH INDONESIAN UNIVERSITIES WILL INCREASE

Today the Chairman of the Board - Rector of the Al-Farabi Kazakh National University Zhanseit Tuimebayev received the Minister-Counselor of the Embassy of the Republic of Indonesia in the city of Nur-Sultan Iman Prarahadian Khavid. Issues of bilateral cooperation were discussed at the meeting.

The head of the university acquainted the guest with the history and main milestones of cooperation between Al-Farabi KazNU and Indonesian universities and suggested ways of its further activation. At the same time, the rector expressed interest in establishing strategic partnerships with other leading universities in Indonesia.

He stressed the need to hold joint offline and online conferences, seminars and symposia to share best practices in the development of science, the introduction of advanced teaching methods. He also emphasized the importance of publishing materials and exchanging experience in the field of higher education, organizing joint research in priority areas of science and innovation.

The representative of the embassy, in turn, especially noted the picturesque appearance of Almaty and the unique student city.

He emphasized the urgency of expanding the scope of cooperation and supported the proposals of the head of the university. He noted that the implementation of projects in the field of education, science and culture will benefit not only the academic environment, but also for the benefit of the people of Kazakhstan and Indonesia in general.

The distinguished guest was also introduced to the achievements of Al-Farabi KazNU and the territory of the campus.

During the meeting, important areas of cooperation were identified.





# FARABI CENTER TO OPEN IN BELGIUM

At the Al-Farabi Kazakh National University, the Chairman of the Board-Rector of the Al-Farabi KazNU Zhanseit Tuimebayev met with Doctor of Philosophy (PhD), editor-in-chief of the Internet publication "EUobserver" (Belgium) Kurt Diebof.

Famous historian, Arabist K. Diebof is the author of many articles and books on the topic of conflicts in the Middle East. As an expert on the region, Mr. K. Diebof has devoted 15 years to international political activity.

Greeting the guest, the rector of the university spoke about the history and formation of the university and noted that this is the only university in the world named after the great philosopher and scientist Abu Nasr al-Farabi. For the university, this is a special pride and great responsibility, because 11 centuries have passed since the time of the great thinker, but the teachings of Al-Farabi have not lost their relevance and significance in modern society.

Thanking for the warm welcome, Kurt Dibov expressed a desire to cooperate with the leading university of Kazakhstan and asked for support in his work on researching the works of the Second Teacher of the East.

The parties also outlined plans for the future on further cooperation and the opening of the Al-Farabi Center in Belgium. The rector of the country's leading university expressed his readiness to provide all kinds of support in further research activities of the foreign guest.

The participants shared their invaluable experience in the field of Russian Farabi studies, told about their creative plans for the future. In conclusion, Kurt Dieboff thanked everyone for their participation and warm welcome, and also expressed his intention to continue comprehensive cooperation with Al-Farabi KazNU.





#### SIGNED A MEMORANDUM WITH AN ALLIANCE OF STUDENTS OF KAZAKHSTAN

Al-Farabi Kazakh National University signed a memorandum of cooperation with the Republican Student Movement "Alliance of Students of Kazakhstan" (ASK), which is designed to facilitate an effective process of information exchange between organizations.

The ceremony of signing the memorandum was attended by the acting Vice- Rector for Social Development Aliya Masalimova and President of ASK Ilyas Tustikbaev.

During the meeting, the parties discussed areas of bilateral cooperation, which cover the issues of improving the updated content of education, the use of advanced methods in the organization of educational work, the formation of professional communities and the organization of network interaction in the areas of activity of the ASK, etc.

As Ilyas Tustikbaev said, today ASK members are included in many state commissions under ministries and various funds, accreditation commissions, including national rating agencies. Thanks to such support and collaboration, students at their level receive complete information, conduct monitoring and offer new ideas on behalf of student youth.

To date, ASK has already signed a memorandum of cooperation with 50 universities in Kazakhstan and is preparing to hold large-scale events at the international level, timed to coincide with the celebration of the 30th anniversary of Kazakhsta's Independence.

ASK President Ilyas Tustikbaev proposed to hold an international gathering of student youth on the basis of Al-Farabi KazNU. And about. Vice-rector Aliya Masalimova noting that Al-Farabi KazNU annually holds an international forum "Men zhastarga senemin", dedicated to the Day of the First President N.A. Nazarbayev, supported the head of the ASK and suggested holding a number of events in November. Having come to a common opinion, the parties also considered the issues of interaction between student organizations and support for students' initiatives.





#### COOPERATION WITH THE BEST UNIVERSITY IN SOUTH AFRICA

The Foreign Policy Advisor of the Embassy of South Africa Peace Kennedy paid an official visit to Al-Farabi KazNU. The meeting discussed issues of cooperation, prospects for the development of bilateral relations and the organization of joint projects.

During the visit, Foreign Policy Counselor of the South African Embassy, Mr. Peace Kennedy met with Acting the first vice-rector of Al-Farabi KazNU K.N. Mukanov. Addressing the guest of honor with a welcoming speech, the first vice- rector noted the importance of cooperation between the university and the Embassy of the South African Republic. He spoke about the fact that since 2015 at the Faculty of Philosophy and Political Science, a V.I. Nelson Mandela classroom.

"Al-Farabi KazNU regularly organizes round tables, where it brings together world experts from academic circles, representatives of diplomatic missions and international organizations," stressed Kanatbek Mukanov. - In July of this year, a round table was held dedicated to the international day of Nelson Mandela as part of the celebration of the 30th anniversary of the Independence of the Republic of Kazakhstan. Wellknown public figures, representatives of the diplomatic mission and international experts took part in the open dialogue. The guest of honor



was Nelson Mandela's granddaughter, Ms. Ndileka Mandela. "



#### AL-FARABI KAZNU AT THE "EXHIBITION OF KNOWLEDGE" IN ISTANBUL

Al-Farabi Kazakh National University took part in the Small Kurultai of Kazakhs "Zhagandanu Urkenietindegi Kazak Alemi", dedicated to the 30th anniversary of Independence of Kazakhstan, which took place in Turkey (Istanbul).

More than 100 representatives of Kazakh communities from Turkey and European countries from cultural institutions and universities of Kazakhstan gathered at a meeting of the Small Kurultai of Kazakhs. A productive exchange of views took place on the most interesting issues of the Kazakh diaspora abroad.

Within the framework of the kurultai, the "Exhibition of Knowledge" was held, in which Al-Farabi KazNU also took part. The exposition includes stands, video materials dedicated to the university, science, educational process, student life.

Within the framework of the event, cultural events were organized: the exhibition "Altyn tamyrly Atazhurt" together with Kazakhstani museums and universities, the opening ceremony of the park named after the famous athlete Mustafa Ozturk in the Bagdylzhar district of Istanbul. In addition, within the framework of the meeting with the Kazakh business community abroad, a documentary film "Alystagy aqaiyn" was shown and a gala concert was held with the participation of the Tattimbeta Kazangapuly academic orchestra of Kazakh folk instruments from the Karaganda region.





#### A COMPREHENSIVE ANTI-CORRUPTION PLAN SIGNED

In Al-Farabi KazNU Al-Farabi, the Chairman of the Board-Rector Zhanseit Tuimebayev met with the head of the department of the Anti-Corruption Agency for the city of Almaty M.D. Akhmetov.

During the meeting, the rector of the university Zh.K. Tuimebayeva noted that in April 2018, on the basis of Al-Farabi KazNU, within the framework of the scientific and educational cluster for the formation of anti-corruption consciousness and culture, the Research Institute of Anti-Corruption Technologies was created.

One of the sectoral projects in the field of education of the Agency for Combating Corruption of the Republic of Kazakhstan is the Republican Project Office "Sanaly Urpaq". As a result of the joint work of Al-Farabi KazNU and the project office, significant results have been achieved.

Also, a multimedia electronic textbook "Fundamentals of combating corruption in the Republic of Kazakhstan" was prepared, which is widely used in the educational process. Released a cartoon animated film for primary schoolchildren "The Tale of a Respectable City".

The anti-corruption standard of the university, the Code of Academic Integrity, the Regulation on the Compliance Service of the University have been developed and implemented. A draft Regulation on the anticorruption commission of the university has been developed.

Al-Farabi KazNU was among the first to open the store of honesty "Adaldyk dakeni", the school of integrity "Parasat".

This year, for the first time, the university initiated an Anti-Corruption Compliance School for students jointly with the Sanaly Urpaq Republican Project Office, in which about 500 students will take part. They will gain knowledge in the field of anti-corruption compliance. In turn, the head of the department of the Anti- Corruption Agency for the city of Almaty, Murat Akhmetov, noted the high personnel potential of the university, expressed hope for the continuation of successful mutually beneficial cooperation on the formation of anti-corruption culture and consciousness. As a result of the meeting, a comprehensive anticorruption plan was signed by the Al-Farabi Kazakh National University for the 2021-2022 academic year within the framework of the Sanaly urpaq project.





#### THE AMBASSADOR OF ITALY HIGHLY APPRECIATED THE REAL RESULTS

Chairman of the Board - Rector of Al-Farabi KazNU Zhanseit Tuimebayev held a meeting with the Ambassador of the Republic of Italy to the Republic of Kazakhstan, Mr. Marco Alberti. During the meeting, they discussed bilateral cooperation in the field of science and education.

Al-Farabi KazNU closely cooperates with 14 leading universities and research centers in Italy, among which are the University of Florence, Sapienza University of Rome, Ca Fascari-Venice University, University of Pisa, Carlo Bo University of Pisa, University of Catania, International Center relativistic astrophysics, etc. The two- degree undergraduate and graduate programs in political science and history are being successfully implemented.

The rector of the university, Zhanseit Tuimebayev, also noted that within the framework of the Erasmus + program, the ChildCA project improving education in the field of childcare as a model for the modernization of postgraduate medical education in Central Asia is operating. The main coordinator is the University of Pavia, and the Higher School of Medicine of the Faculty of Medicine and Health is represented from Al-Farabi KazNU. This project involves 11 universities from three European countries (Italy, Germany and Poland) and three Central Asian countries (Kazakhstan, Uzbekistan and Tajikistan). In this regard, the head of the university asked for support in the further development of cooperation between the university in Italy and the Republic of Kazakhstan. The rector expressed hope for the continuation of close and fruitful cooperation, which will accelerate the solution of the tasks in the field of training highly qualified personnel, research and development in



the field of nanotechnology and materials, archeology, as well as scientific and innovative projects.



#### THE GOLD OF THE GREAT STEPPE EXHIBITION OPENED IN CAMBRIDGE

On the occasion of the 30th anniversary of Kazakhsta's independence, the Fitzwilliam Museum of Cambridge University opened an exhibition "Gold of the Great Steppe", where exhibits found by scientists from Al-Farabi KazNU were presented.

The exhibition presented golden artifacts of ancient Saka burial mounds of the East Kazakhstan region, which were found as a result of excavations by famous scientists-archaeologists, professors of the Al-Farabi Kazakh National University Abdesh Toleubaev and Zainolla Samashev. The British public had the opportunity to see exhibits of the Scythian civilization, finds from the Saka burial mounds, which in the VIII-III centuries BC. NS. dominated in Central Asia, in particular in the Altai mountain system of Kazakhstan. The exhibition features about a hundred archaeological finds from three different burial grounds, such as Berel, Shilikty and Sazy Eleke. The exposition shows that the ancient Saki had a unique culture and deep knowledge in nomadic pastoralism, mining and metallurgy. This period is also called the "golden age" in the history of the ancient Kazakhs. One of the most valuable exhibits is the remains of the "Golden Man", whose clothing consists of 15,000 pieces of gold. A unique opportunity for Great Britain and, of course, for the whole world to show the ancient culture of Kazakhstan.





# RELIGIOUS EDUCATION IS THE KEY TO STABILITY IN SOCIETY

Chairman of the Board-Rector of Al-Farabi Kazakh National University Zh.K. Tuimebayev met with the Director General of the Institute for the Study of Islam of the International Islamic University of Islamabad, Mr. Mohammed Zia Ul-Haq. During the online meeting, the parties exchanged views, discussed a range of issues on the development of cooperation.

The head of the University noted that Al-Farabi KazNU closely cooperates with three leading universities and research centers of Pakistan, including the International Center for Chemical and Biological Sciences of the University of Karachi, together with the International Center for Research in the Field of Phytotherapy and Botany, the University of Lahore and the Institute of Information Technology COMSATS. An academic mobility program is being actively implemented between universities. So, at the moment, forty-four students from Pakistan are studying at Al-Farabi KazNU in the following specialties: "biotechnology", "machine learning and data analysis", "dentistry" and "general medicine". Rector Zh . Tuimebayev also stressed that Al-Farabi KazNU is the center of excellence of "COMSATS" in Kazakhstan, the General Secretariat of which is located in Pakistan.

Al-Farabi KazNU has been cooperating with international organizations since 2017, in particular, the Islamic Organization for Education, Science and Culture (ISESCO) and the Commission on Science and Technology for Sustainable Development in the South (COMSATS). Together with them, seminars, trainings, consulting work are conducted in the following areas: "Internet security and cyber defense", "Restoration of ecosystems, the problem of climate change for sustainable development".

The Faculty of Philosophy and Political Science of Al-Farabi KazNU successfully operates the Department of Religious Studies and Cultural Studies, which trains specialists in the field of religious studies and Islamic studies.





#### **NEW ENERGY SOURCE FOR CAR**

Tolganay Temirgalieva, a doctoral student at Al-Farabi KazNU, a researcher at the Institute of Combustion Problems, creates supercapacitors - new generation batteries. In the manufacture of lithium batteries, rare earth, reactive metals are used that are toxic during use and disposal.

The advantage of such batteries is a long life cycle: up to 1 million charge- discharges versus 3 thousand for lithium ones. In addition, supercapacitors are dozens of times lighter than traditional ones and release a charge very quickly: a mobile phone can be fully charged in just seconds.

- I am working on batteries based on activated carbon, obtained from natural waste - rice husks, apricot pits and walnut shells, as well as on the basis of carbon nanotubes. In lithium batteries, energy is stored through chemical reactions. Supercapacitors based on carbon materials store energy due to their porous structure. The activated carbon obtained by us has a very high specific capacity - 1 gram of substance can be distributed in the thinnest layer over an area of 3 thousand square meters. m, explains Tolganay.

Supercapacitors have less energy stored in 1 kg of the device than in a lithium battery. Energy capacity is increased due to nanotechnology. "Tolganai uses nanotubes instead of polymers used in lithium batteries. This is the uniqueness of her work, "says Mukhtar Eleuov, a colleague of the inventor from the Institute of Combustion Problems.

The nanotubes were developed at Waseda University (Tokyo) under the guidance of Professor Suguru Noda. The Japanese have also created and are already selling carbon-based electrodes. But their material "Kurarai" has a capacity of 120 farads, and the materials of Tolganay -180-200 farads per gram. Therefore, the Japanese professor began to cooperate with a scientist from Kazakhstan: from them

- nanotubes, from us - coal from waste. "Using materials based on rice hulls and apricot kernels, it achieved good performance comparable to commercial activated carbon," comments Professor Noda.

So far, the development of Tolganai can be used for electric vehicles. When the volumes of supercapacitors are "compressed" to the size of batteries for portable devices, the scope of their application will significantly ext





#### SIGNED MEMORANDUM WITH UNIVERSITIES OF TURKMENISTAN

Today, the Al-Farabi Kazakh National University signed bilateral memorandums of mutually beneficial cooperation with the Institute of International Relations of the Ministry of Foreign Affairs of Turkmenistan and the Makhtumkuly State University of this country.

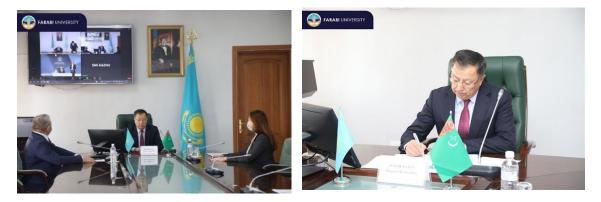
The online signing ceremony, which took place within the framework of the state visit of the President of the Republic of Kazakhstan Kassym-Zhomart Tokayev to Turkmenistan, was attended by the Chairman of the Board - Rector of Al-Farabi KazNU Zhanseit Tuymebayev, rector of the Institute of International Relations of the Ministry of Foreign Affairs of Turkmenistan Zhumamyrat Gurbangeldyev and rector of the Makhtumkula Turkmen State University Bayramgul Orazdurdyev.

The memorandums concluded within the framework of cooperation laid the foundation for cooperation in the humanitarian, technical, and social fields, including in the field of international relations and regional studies, international law, world economy and international journalism. The parties agreed to cooperate on joint research work, exchange of teachers and scientists, organization of refresher courses and lectures, implementation of educational programs, including double diploma.

Congratulating colleagues, the head of the educational institution Zhanseit Tuymebayev noted that this event marked the beginning of great joint work for both parties. In conclusion, the rector invited the head of the Institute of International Relations to pay an official visit to Al-Farabi KazNU.

The program documents also provide for the exchange of experience in the development of the digital education system, attracting the best scientists for scientific leadership, conducting online and offline seminars, round tables, conferences using information technologies, joint participation in grants initiated by state, international, public and private foundations and organizations, publication of articles, reports and other scientific works in periodicals of partner universities.

It should be noted that at present more than 400 students from Turkmenistan are studying within the walls of Al-Farabi KazNU.





#### COOPERATION WITH THE HUNGARIAN NATIONAL RESEARCH INSTITUTE

Al-Farabi Kazakh National University, within the framework of the Kazakh- Hungarian Business Forum, signed a Memorandum of Cooperation with the Institute for Research of the Hungarian Nation.

During the meeting, the parties noted the historical continuity and ethnic kinship of the Kazakh and Hungarian people, stressed the importance of interaction between the two countries in the field of education and science. Within the framework of cooperation, the document provides for active interaction in the study of social, humanitarian, natural and technical sciences. In addition, educational institutions have agreed to cooperate on joint research work, doubledegree education, exchange of teachers and students, and organization of refresher courses.

The bilateral agreement was signed by the vice-rector for social development of AI- Farabi KazNU Aliya Masalimova and Director of the Hungarian National Research Institute Horvat-Lugosi Gabor.

By the way, today Al-Farabi KazNU cooperates with 7 universities: Janos Kodolani Hungarian University of Applied Sciences, University of Obud, University of Szeged, West Hungarian University, Esterhazy Karoy University College, Catholic University of Peter Pazman and University of Sopron. Within the framework of the partnership, educational programs are being implemented, and research work is being carried out.





#### HYDROGEN FROM SOLAR ENERGY

A group of researchers from the Faculty of Chemistry and Chemical Technologies of Al-Farabi KazNU is conducting research on the development of photocatalysts based on heterostructure nanocomposites, first obtained by a mechanochemical method.

As you know, hydrogen technology is actively developing all over the world, and almost all large companies from the field of automotive production and electrical engineering are investing in its development. Photocatalysts for hydrogen production are developed in the laboratories of the best universities in the world. All these facts show the importance of research in the development of photocatalytic hydrogen production using solar energy. According to the developers, the implementation of such projects will increase the competitiveness of Kazakhstan's science in the field of renewable energy research, which is one of the important issues of humanity.

World reserves of oil, gas and coal are limited, and the intensity of their production is growing every year. Despite the benefits of nuclear energy, many countries are moving away from using it for safety reasons. The lack of energy carriers stimulates the search for new energy sources. A practically inexhaustible source of energy is the energy of the sun. The existing technologies for converting

solar energy into chemical raw materials require significant development.

The project work of chemical researchers is aimed at developing effective photocatalysts for converting solar energy into renewable hydrogen, for each of which the efficiency of converting light energy into chemical energy, in the form of hydrogen, which in turn is a pure chemical raw material, will be calculated. For the photocatalytic synthesis of hydrogen, not only aqueous solutions of glycerol and triethanolamine that are actively used today, but also natural oils of vegetable origin will be used.

The developed technology of solid-phase mechanochemical synthesis of photocatalysts is economically profitable and economically advantageous in comparison with other methods of obtaining photocatalysts. Therefore, the resulting nanocomposites will have a low cost.





#### SCIENTISTS OF THE AL-FARABI KAZNU ARE INVESTIGATING THE PROBLEM OF SURVIVAL OF MICROORGANISMS IN EXTREME CONDITIONS

Al-Farabi KazNU scientists together with international partners published the results of scientific research in the collective monograph "Microbiological communities and their interaction in an extreme environment."

As foreign co-authors of the university scientists were: Nils-Kare Birkeland (Norway), Dilfuza Egemberdieva (Germany), Hovik Panosyan (Armenia), Wang-Jun Li (China).

The SPRINGER edition published two chapters "Microbial stress response to heavy metals" and "Analysis and characteristics of thermal springs in Kazakhstan", which were included in the collective monograph "Microbiological communities and their interaction in extreme environments". The scientific publication is devoted to topical problems of biological diversity and biotechnological application of extremophilic microorganisms.

The chapter "Microbial stress response to heavy metals" discloses the global environmental problem of environmental pollution by heavy metals, which pose a significant threat to all living organisms. The importance of studying the physiological mechanisms of plant resistance to the damaging effect of abiotic factors, including the use of effective microorganisms, is described. Its solution is of fundamental importance for understanding the strategy of plant survival in extreme conditions, as well as for the development of technology for protecting plants from the damaging effects of adverse environmental factors.

The chapter also provides information on studies of the effect of heavy metal ions on the growth of micromycetes with multiple resistance to zinc, copper, manganese and lead. The results of this study will help to effectively use the potential of microorganisms and their ability to increase plant resistance to stress factors. They can become the basis for the development of technology for growing plants.





## AL-FARABI KAZNU EXPANDS COOPERATION IN THE FIELD OF ETHNOPOLITICAL RESEARCH

Deans and heads of departments of the socio-humanitarian direction of Al- Farabi KazNU met with representatives of the Secretariat of the Assembly of the People of Kazakhstan, the Presidential Administration of the Republic of Kazakhstan and the Institute of Applied Ethnopolitical Research in an online format, discussing the main approaches to the formation of research groups and the implementation of joint scientific projects.

During the meeting, Deputy Head of the SANK of the Presidential Administration of the Republic of Kazakhstan Yerlan Abdakasov and Vice-Rector for Academic Affairs of Al-Farabi KazNU Fatima Zhakypov made a welcoming speech, noting the relevance of cooperation in the field of research of interethnic relations.

Director of the Institute of Applied Ethnopolitical Research Talgat Kaliyev acquainted with the activities of the Institute, spoke about the applied research on the problems of preventing interethnic conflicts in the country.

Deputy Director of the Institute of Applied Ethnopolitical Research Aigul Sadvakasova assessed the prospects of studying the issues of ethnology, ethnolinguistics, ethnopolitics, conflictology, interethnic relations and ethno- confessional relations.

As a result of the meeting, experts from the Assembly of the People of Kazakhstan and the Institute of Ethnopolitical Research were invited to jointly develop and update the educational programs of the university. In addition, specific steps have been identified for the implementation of mutually beneficial collaboration of the scientific and expert community.





## MOOC AL-FARABI KAZNU IS IN TOP 100 POPULAR ONLINE COURSES IN THE WORLD

The massive open online course of Al-Farabi KazNU was included in the list of the 100 most popular out of 2,900 online courses launched in 2021 on educational platforms of the world, according to the popular online course search engine Class Central.

The founder and CEO of Class Central, Mr. Dhawal Shah, announced this in his congratulatory letter.

For the university, this is the first online course published on the world's largest provider of educational courses, Coursera, with the support of Peter the Great St. Petersburg Polytechnic University (SPbPU).

Work on the course lasted more than a year, the launch of which took place on January 2, 2021.

Instructor and course developer - Deputy Head of the Department for Scientific and Innovative Work and International Relations, Senior Lecturer of the Department of Molecular Biology and Genetics, PhD Aizhan Zhusupova (Fulbright laureate, 2011-2012, British Council Researcher Links, 2016, participated in 10 projects of the Ministry of Education and Science of the Republic of Kazakhstan, 3 international projects, author of 12 teaching aids). Assistants - Head of the Department, Candidate of Biological Sciences Zhazira Zhunusbaeva, Senior Lecturer, PhD Izat Smekenov.

The development of the pedagogical design of the course, video filming and editing of promo and lectures was carried out under the leadership of the director of the Institute of New Educational Technologies of Al-Farabi KazNU Asel Musinova and the director of the MOOC Center Marzhan Atabayeva.

Director of the Center for Open Education of SPbPU Svetlana Kalmykova, Deputy Director Artem Koshkin and employee of the center Fanil Bakhtiyarov provided organizational, consulting and technical support in the work on the pedagogical design of the course and the publication of teaching materials for the course on the platform.





#### MINISTER OF EDUCATION AND SCIENCE OF THE RK VISITED AL-FARABI KAZNU

Al-Farabi Kazakh National University was visited by the Minister of Education and Science of the Republic of Kazakhstan Askhat Aimagambetov. During the working trip, the minister examined the material and technical base of the educational institution, and also got acquainted with the work done.

The Chairman of the Board - Rector of Al-Farabi KazNU Zhanseit Tuymebaev informed the minister about the results of the repair work carried out at the university this year. The minister inspected the overhauled educational buildings and renovated classrooms.

"Recently, the university campus has not undergone major repairs, educational buildings are outdated. Significant work has been done on the territory of the university to eliminate this problem this year, "said the head of the university.

Then Askhat Aimagambetov got acquainted with the activities of Al-Farabi Business school, examined the classrooms equipped in accordance with modern standards.

At the end of the meeting, Zhanseit Tuymebaev told the minister about the latest achievements of the university and plans for further development.





#### AL-FARABI KAZNU IMPROVED ITS POSITION IN QS EECA

#### RATING 2022

Al-Farabi KazNU once again confirmed its high competitiveness and rose in the ranking of the best universities in developing countries of Europe and Central Asia QS EECA (Emerging Europe & Central Asia) from 19th place to 16th position.

This high recognition of the world academic community confirms the global competitiveness of the university. The QS University Rankings: Developing Europe and Central Asia (EECA) has been published regularly since 2009, summarizing information on the development of the leading universities in the macroregion. This rating was carried out among 450 universities in Eastern and Central Europe, the CIS and the Baltic States, which is 50 more than last year, despite the global difficulties in the field of higher education around the world caused by the COVID-19 pandemic. Each member of the thousands of Al-Farabi KazNU staff contributes to the promotion of the university in world rankings. Actively integrating into the global scientific and educational community, Al-Farabi KazNU is doing a lot to bring the university indicators to the international standards of the world's leading universities.

The international team of compilers of the QS EECA 2022 ranking offers an expanded range of criteria for the activities of higher education institutions for ranking universities. The most important among them are: the scientific productivity of the university; academic reputation and employer assessment, which are based on an international survey of the academic environment and potential employers.

Also, experts pay great attention to the share of employees with a scientific degree, scientific citation of publications and the effectiveness of the university's Internet resources, the share of foreign students and foreign teaching staff.

On the eve of the celebration of the 30th anniversary of independence, we congratulate the collective of Al-Farabi KazNU on high achievements at the world level and wish new achievements!





#### COOPERATION WITH MEDICAL UNIVERSITIES OF UZBEKISTAN HAS STRENGTHENED

Representatives of higher educational institutions in the field of medicine and healthcare of Uzbekistan visited Al-Farabi Kazakh National University. The sides exchanged views on the development of mutual partnership.

Among the educational institutions of Uzbekistan that intend to cooperate are the Tashkent Medical Academy of Termez and the Ferghana Institute of Public Health. During the talks, issues of strengthening the bilateral partnership for the training of highly qualified specialists in the field of medicine and healthcare were discussed.

Today, more than 100 Uzbek students study at the Al-Farabi Kazakh National University.





#### 34 KAZAKHSTAN UNIVERSITIES INCLUDED IN THE RATING OF THE BEST UNIVERSITIES IN THE WORLD BY QS EECA 2022

34 universities of Kazakhstan were included in the list of the best universities according to the British agency QS EECA 2022. The rating contains information about the top universities in Europe and Central Asia. The TOP-100 includes 7 domestic universities. Al-Farabi Kazakh National University became the leader. Compared to last year, the university has moved up 3 positions and took 16th place, beating such foreign universities as Istanbul Technical University (Turkey), Vilnius University (Lithuania) and others.

Following Al-Farabi KazNU in the ranking, the LN Gumilyov Eurasian National University took the leading position.

It is on the 42nd line of the international rating. Satbayev University ranks third among Kazakhstani universities. Among the regional universities, the M.Auezov South Kazakhstan University entered the top 100.

"The number of Kazakhstani universities included in the QS Emerging Europe and Central Asia University Rankings is increasing every year. This speaks of the recognition of higher education on the world stage. If last year the rating included 27 Kazakhstani universities, this year there are already 34. Domestic universities compete with leading universities in Russia, Czech Republic, Poland, Estonia, Lithuania, Turkey, Georgia, Azerbaijan and other countries. This shows that our universities have done a lot to improve the quality of education. Also, an increase in the number of Kazakhstani universities in the world ranking indicates that our universities provide knowledge that meets the requirements of the time and world standards, "said Adlet Toybaev, Director of the Department of Higher and Postgraduate Education of the Ministry of Education and Science of the Republic of Kazakhstan.

Note that ten main indicators are taken into account when compiling the QS EECA rating. Among them are the academic reputation of the university, reputation among employers, the ratio of the number of teachers and students, the number of publications per teacher and employee, the number of citations of publications by university scientists, the proportion of foreign students, teachers and staff, and others.

