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**TIAME**  
NATIONAL RESEARCH UNIVERSITY



# SUSTAINABLE DEVELOPMENT GOALS REPORT 2023

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## 1 NO POVERTY



Our country has long extended a helping hand to representatives of the most deprived strata, and in particular, in the current state policy, there are many laws, laws and decrees in this regard. The purpose of these normative documents is to provide material and spiritual assistance to the low-income segment of society in need of social protection, as well as measures to lift them out of poverty.

1. On June 1, in honor of International Children's Day, the Faculty of Natural Resources Management organized a charity event "Give Peace to Children" in Malyutki House. The event emphasized the attention that the state pays to young people, creating conditions for their comprehensive development, which is connected with the achievement of SDG1 — the fight against poverty



2 The National Research University "TIAME" hosted a spring festival and sumalak cooking, with the participation of students and teachers. After the event, students were given Uzbek national dishes, which contribute to strengthening cultural traditions and communication, including in the context of SDG1-fighting poverty through creating shared values and maintaining communities.



3. According to the updated resolution of the Cabinet of Ministers, students will be covered part of the rent, regardless of the amount of the contract, with payments of 330,000 sums in Tashkent and 165,000 sums in other regions. This simplification of the procedure makes it possible to increase the access of students in need of housing to this assistance, which contributes to improving the conditions for studying and reducing poverty

4. The rector of the Tashkent Institute of Irrigation and Agricultural Mechanization held individual meetings with students living in the hostel, discussing their problems and opportunities for improving conditions, including assistance for additional courses and treatment. This will help create better conditions for students and reduce barriers to learning.

## 2 ZERO HUNGER



1. The university held motivational training for students aimed at strengthening interethnic friendship and mutual understanding, as well as increasing cohesion among young people. The participants discussed the importance of civil peace and respect for national and universal values.

2. The university hosted a cultural and entertainment program "Students party", organized by students of the Faculty of Energy. Within the framework of the event, traditional Uzbek dishes were prepared, as well as national songs and dances were performed, creating an atmosphere of friendship and fun.



3. The university hosted a cultural and entertainment evening "Students Party", organized by the Faculty of Ecology and Law". The event was attended by about 70 students, for whom games and competitions were held,

and at the end national food was prepared and songs were performed, which created a fun atmosphere among the participants, including international students.

4. On November 8, a master class on cooking the Uzbek dish "khonim" for first-year students of the Faculty of "Hydro-Reclamation" was held in the 4th hostel "TIAME"NRU. The students showed their culinary skills working in a team and were satisfied with the result, which helped them prepare for family life and leisure activities.

5. "PLOV PARTY" pilaf cooking contest was held in the "TIAME"NRU hostel, which was attended by students living in the hostel. This event not only allowed students to develop the necessary everyday skills, but also contributed to the strengthening of national traditions and values.





6. On October 27, a pilaf cooking contest was held in the TIAME NRU hostel, organized by teachers of the Faculty of Ecology and Law. First-year students of the faculty took an active part, and the pilaf they prepared was evaluated positively, and the event was accompanied by national songs and dances.



Shodiyeva prepared the national Uzbek dish — somsa. The event was held in the dormitory, where all conditions for cooking were created, and during it the students not only learned how to cook, but also had fun discussing plans for further culinary meetings.

7. Students of the Faculty of Economics of the Tashkent Institute of Irrigation and Agricultural Mechanization under the guidance of their mentor D. Egamova conducted a master class on preparing a popular dish among young people — lavash under the EVOS brand. The pita bread turned out not only delicious and beautiful, but also prepared a salad with chicken and mayonnaise, which everyone liked, adding a vivid impression of culinary skills.



7. On October 2, a culinary master class was held at the Tashkent Institute of Irrigation and Agricultural Mechanization, where 1st-year students of the Faculty of Economics under the guidance of their mentor Gulbakhor

### 3 GOOD HEALTH AND WELL-BEING



Tashkent University of Irrigation and Agricultural Mechanization Engineers Medical Department at the "National Research University" In 2023, work was carried out to improve the health of professors, teachers and students of the university

1. To improve the effectiveness of preventive measures aimed at improving the quality of health care in institutions, approved by the Decree of the Ministry of Health of the Republic of Uzbekistan dated September 2017 No. 718 the university hosted a reception dedicated to the completion of courses in sewing, cooking and nursing for female students. 72 female students received diplomas and certificates, and 200 million sums were allocated for the organization of these courses, which emphasizes the importance of professional training and support for women.



2. On November 22, the Tashkent Institute of Irrigation and Agricultural Mechanization hosted a seminar on "We are supporters of a healthy lifestyle", aimed at raising students' awareness about the prevention of acute respiratory infections/AIDS and the importance of a healthy lifestyle. At the event, medical consultations were presented, a free medical examination was conducted, and recommendations were given to prevent infections and improve overall health.



3. On November 15, as part of the "Week of Students", the Faculty of Land Resources and Cadastre held sports competitions, including mini-football, volleyball and chess in the framework of the "Dean's Cup-2023" tournament. More than 120 students took part in the competition, and Dean Sh.Narbayev wished good luck to all the teams, giving a start to the event

## 4 QUALITY EDUCATION



Ensuring decent and quality education and developing lifelong learning opportunities for all

1. The Uzbekgidroenergo scholarship program supports the training of qualified specialists in the field of hydropower.

In 2023, three talented students who received scholarships were awarded certificates and expressed gratitude for their trust and support in their professional development.

2. A student of the university, Shokirjon Mansurov, became an active participant of the international scientific conference "Scientific Academy" in September 2023 and was awarded as the "Best participant". This recognition highlights the importance of academic growth and research, as well as the contributions of its academic supervisors.



2. The students' forum discussed issues related to improving the quality of education and creating conditions for effective communication between teachers and students. It was important to listen to students' demands, including the need to increase teacher communication and suggestions for improving the educational process.

3. On December 20, Tashkent State Law University hosted an event in cooperation with USAID, which included an open discussion, a meeting with the Minister of Justice, and an intellectual game. Students of the Faculty of Ecology and Law of the University adequately participated in the game, taking 4th place among 25 teams of law schools, which contributes to the development of their professional skills for a sustainable economy.



4. The student's victory in the republican contest "DG CONTEST" in the field of information technologies and artificial intelligence underlines the importance of developing such skills among young people and preparing them for a professional career in high-tech areas.

5. The victory of the Hydro-Reclamation faculty in the national university ranking confirms the high quality of education and scientific and technical achievements, which contributes to the promotion of sustainable development through educational and innovative approaches.



Ranokhon Iskandarovna Rashidova, a talented student of group 207 in this specialty, who presented their research papers on international financial reporting standards and the role of artificial intelligence in the development of accounting.

7. The rector of the grant for English studies has been announced, and all registered students are invited to the selection stage, which will be held on November 18, 2023 in the university's innovation cluster. Grant winners will have the opportunity to study English for free at the USCHOOL training center for one year.





8. On November 3, 2023, the Hydroleaders team of the faculty of Hydro-Reclamation of TIAME held a meeting with 1st-year students of the ATBR and SXM groups. During the meeting, students were told about contests and new opportunities.

9. On October 29, a trip to Samarkand was organized for TIAME teachers and students from Kazakhstan and Hungary on the initiative of Rector B. S. Mirzayev. The participants got acquainted with the historical monuments of the city, strengthened the sense of national pride and expressed gratitude to the university management for an impressive event.



discussed

11. The university hosted a meeting between academicians and young people, where they discussed current problems of science and ways to solve them. Academician Roman Zahidov emphasized the importance of using renewable energy sources in accordance with legislative initiatives and inspired students to explore and open new horizons in science.

12 A memorandum of cooperation was signed between the Students' Union of the National Research University "Tashkent Institute of Irrigation and Agricultural Mechanization Engineers" and the Students' Union of the Tashkent State University of Economics. The main goal is to work together in the field of education, sports, culture and organization of social events.



10. On October 24, the Tashkent Institute of Irrigation and Agricultural Mechanization hosted a meeting of 1st-year students of the Faculty of Hydraulic Engineering with employees of Sanoat Kurilish Bank. During the meeting, banking services and opportunities for students, including educational loans, were

13. The University hosted a meeting with a delegation from the German Ministry of Education and Research. During the meeting, issues of strengthening cooperation and scientific ties were discussed, which was attended by a number of scientists, professors and postgraduates.



14. Conditions for lifelong education at the university. TIAME teachers conduct lectures and distance lessons, practical seminars, courses, service training, organize various events for students of various social societies, schoolchildren and city members. NRU "TIAME" carries out outreach work and advertises for those wishing to receive additional education, and the university has a professional development center, a variety of training courses and circles for lifelong learning NRU "TIAME" informs students about the conditions created on the basis of a survey and opens additional courses on demand.



the development of the university.

16. On October 6, an exhibition of higher education institutions was held in Tashkent, which was attended by representatives of universities from different countries, presenting bachelor's, master's and doctoral programs. Within the framework of the exhibition, seminars and trainings were also held, where applicants and their parents learned about international educational opportunities.



## 5 GENDER EQUALITY



1. On December 21, 2023, students of the Faculty of Economics took part in a cultural and educational event within the framework of the event "The Role of fiction and Book Reading in the Upbringing of girls". The guest of the event was the famous poetess Farogat Khudoykulova, who shared her life experiences, emphasizing the importance of knowledge and education for highlighting the path of life.



Women's Creativity Center, and other initiatives aimed at promoting gender equality and supporting women's activism.

3. On December 20, within the framework of preparing female students for their future life, held a seminar on the topics "Sharqona odob-axloq" and "Talaba-qizlar kelajak hayotga tayyormi?". The event included discussions about morality, cultural values, and family life, as well as cooking and art workshops.

4. At the event, organized for students of the Faculty of Hydraulic Engineering, a psychological session and discussion on the topic "Discovery of



2. As part of the work of the University's Women's Advisory Council, a report was compiled on the implementation of plans and tasks approved based on the order of the Ministry of Higher Education, Science and Innovation. Among the planned events for 2024 are an international conference on supporting women, the publication of a scientific and educational magazine, the creation of a

inventors — a requirement of time" were held. During the event, Dilor Karimova, a student of the 207th group, who took 2nd place in the republican contest "Inventor of the Year 2023" and won a scholarship from the Uzbekgidro company, was told about the achievements, and participants were given motivational tips for achieving high goals.

5. Students of our university took part in the presentation of the "Ladies Business Club" platform, organized on the initiative of the leader of the Youth Union M. Yarbekova and the chairman of the Advisory Council of Women Z. Yarbekova. Ismailova Street. The goal of the platform is to support girls in entrepreneurship, help them start their businesses, and provide practical tools from experienced businessmen through the online platform.



6. On December 4, 2023, a training seminar on the topic "The role of women in society and the family" was held in TIAME, organized as part of the implementation of the order of the Cabinet of Ministers of the Republic of Uzbekistan. The event was opened by the chairman of the University's Women's Advisory Council, Zuxra Ismailova, and the training was conducted by psychologists Dildora Dadakhozhayeva and Nilufar Ergasheva, who discussed psychological and legal issues often encountered among women, as well as the importance of psycho-emotional support for female students

7. On November 23, 2023, the Faculty of Agricultural Mechanization hosted a training seminar on "We are against





domestic violence", with the participation of the Dean of Women's Affairs, female students of the faculty and law enforcement officers from Yunusabad district. The event was dedicated to the international campaign against violence against women, held from November 25 to December 10 under the slogan "16 days against violence". The seminar discussed measures taken in Uzbekistan to prevent domestic violence, the role of women inspectors in protecting women's rights, as well as opportunities for legal and social assistance to women victims of violence



8. On November 9, 2023, a seminar on "Gender equality" was held at the Tashkent Institute of Irrigation and Agricultural Mechanization. The event was organized under the leadership of the Chairman of the University's Women's Affairs Council, Zukhra Karabayevna, as well as with the

participation of the Dean of the GM Faculty of Women's Affairs, Z. F. Beknazarova, Associate Professor Z. Mirkhasilova and tutor D. Akhrarova. The event was attended by experts such as the Director of the Institute for Democracy and Human Rights, Candidate of Law, Colonel of Justice Sayora Khodjayeva, as well as representatives of the Environmental Party of Uzbekistan and regional organization

9. On November 2, 2023, within the framework of the Faculty of Ecology and Law, a seminar was held on the topic "Preventing violence and pressure on women". During the event, the law on the protection of women from violence, the role of State bodies and institutions, as well as measures to improve the social and political role of women in society were discussed.

## 6 CLEAN WATER AND SANITATION



On December 7, a delegation led by the rector of the Tashkent Institute of Irrigation and Agricultural Mechanization, Professor Bahodir Mirzayev, visited Urgench State University to discuss training in the field of water management. During the visit, a memorandum of cooperation was signed providing for joint training programs, exchange of experience and development of new educational materials and laboratories.



2. The delegation headed by the Rector of the Tashkent Institute of Irrigation and Agricultural Mechanization, Professor Bahodir Mirzayev, met with the Chairman of the Council of Ministers of the Republic of Karakalpakstan Farhod Urazbayev. During the meeting, proposals for improving the skills of water management specialists in the region, reducing water losses and applying innovative irrigation methods, as well as organizing intensive courses for university graduates were discussed.

3. From November 24 to 26, Uzbekistan hosted the country's first marathon, organized in cooperation with the Agency for Strategic Reforms under the President, O'zsuvtaminot AJ and INHA University. During the event, 120 volunteers, including students of TKHMMI, collected data on the level of drinking water supply and sewerage coverage in the Yangyol area, which were uploaded to the online geographic information system.





4. Students of the Tashkent Institute of Irrigation and Agricultural Mechanization (TIAME) actively participate in the process of water purification at enterprises and facilities providing water supply and sanitation in Uzbekistan. In practice at Ukkhoz, Karasu Kanal and Tashkent Suff

Ta'minoti, students gain unique experience in modern water purification technologies and water resources management.

5. TIAME students are actively involved in the maintenance and modernization of the Karasu Canal in Yashnabad district, studying water purification processes and the design of hydraulic structures. They learn how to remove pollutants, including biological and mechanical treatment, and develop new water disposal systems to improve water resource efficiency.



6. Students of TIAME are trained at the treatment facilities of the Tashkent - Ta'minoticompany, studying modern methods of wastewater treatment and participating in technical operations. During their internship, they analyze water quality, help improve existing treatment systems, and introduce innovative solutions to improve water



supply efficiency. .

7. The agreement between the University and Salar Station underscores the university's commitment to environmentally responsible practices, including integrated wastewater treatment. This partnership not only addresses current challenges, but also serves as an example for other educational institutions and businesses, demonstrating effective wastewater management while minimizing environmental impact.

8. Thanks to the initiative of Ezooz Ozodov and the introduction of the NEUTRALIZE device, the university demonstrates leadership in the rational use of water resources. These measures address water supply issues and contribute to the development of new technologies that can be scaled up for use in other institutions and regions, contributing to sustainable development and preserving resources for future generations



9. On World Water Day on March 22, a competition was organized at the TIAMME National Research University, which included competitions among students. A special pride of the university was brought by a student of the Faculty of "Energy" Shokhzhakhon Ziedullayev, who won a video contest on the topic of rational use of water resources and received a certificate and valuable gifts.



10. The Suvchilar Maktabi projects a unique initiative aimed at training qualified specialists for agriculture in Uzbekistan, with a focus on innovative water supply and water resource management technologies. Supported by Agrobank, the Ministry of Water Resources and the Tashkent Institute of

Irrigation and Agricultural Mechanization, this project offers training courses, practical training and expert consultations, as well as access to digital platforms to disseminate knowledge and experience in the field of rational use of water resources.

11. TIAME hosted a meeting with the Korea Study delegation led by Lee Sang-shik, where they discussed cooperation in the field of water supply, water treatment and renewable energy. Students were also offered opportunities for internships, studying in Korea, and participating in ODA and KOICA projects.





12. TIIAME hosted a meeting with a delegation from the German Ministry of Economy and Climate Protection and representatives of leading companies. We discussed cooperation in the field of clean water technologies, energy and attracting German specialists to the educational process.

13. "On October 25, TIIAME hosted an award ceremony for the winners of the O'zsvu'ta'minot Special Scholarship competition. The event was attended by the dean of the Faculty of "Hydro-reclamation" A. Fathullayev, the head of talented students D. Atakulov and the winners of the competition.



14. Within the framework of the Erasmus+ HWCA project, a meeting was held to discuss the importance of training specialists in the field of water diplomacy and water resources management in Uzbekistan. Issues of analysis of the country's water sector, transboundary water resources and interaction with State bodies responsible for preparing and monitoring relevant policies were considered

15. "A field project dedicated to water conservation issues was held at the university, where students and teachers held a master class and a webinar for schoolchildren and teachers. During the event, modern water saving technologies and the importance of responsible consumption were discussed, as well as simple ways to save water were proposed, which aroused a keen interest of participants and inspired them to implement the knowledge gained in everyday life. "

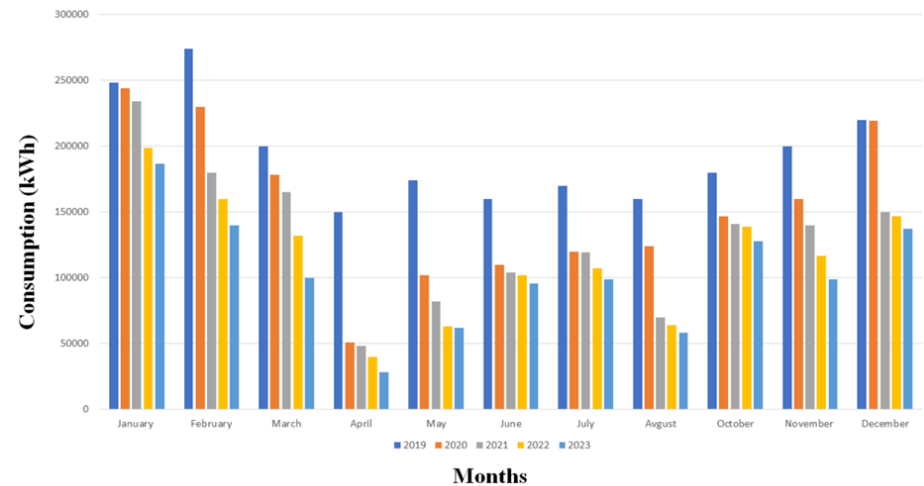


## 7 AFFORDABLE AND CLEAN ENERGY



The basic concept of TIIAME is the use of alternative energy sources, as well as green energy. In addition, the concept of developing innovative projects and startups, as well as implementing them as a platform of experience at the university is supported. Throughout 2024, the clean energy and green energy sectors made progress and significant progress was made.

1. The total electricity usage of "TIIAME" NRU in 2023 is 1. 289.214 kWh. On the "TIIAME" NRU. electricity is used for lighting, cooling, heating and laboratory appliances.



2. Smart heaters were installed in university study halls to provide efficient heating and air purification, addressing the limitations of traditional systems. Their wireless control, energy-saving features, and ability to maintain optimal temperature and air quality made them a convenient and effective choice.



3. TIAME National Research University is addressing energy challenges in Uzbekistan by promoting energy efficiency and workforce development through site assessments, scientific research, and the dual education model. These efforts in cities like Angren aim to improve energy resource management, reduce waste, and equip students with practical skills, supporting the goals of sustainable development.



investor interest.

Smart heaters were installed in university study halls to provide localized heating and air purification, addressing the limitations of traditional systems. Their wireless control, energy-saving features, and built-in air quality monitoring offer convenience and efficiency for students.



1. Charge parking ("TIAME" NRU)



2. Renewable energy ("TIAME" NRU)

4. TIAME National Research University is advancing startup projects focused on renewable and green energy, aiming to attract investments and establish spin-off companies for industrial development. One notable example is the "Defuse-IT" low-energy water purification device, which has garnered

## 8 DECENT WORK AND ECONOMIC GROWTH



1. The Syrdarya Youth Technology Park hosted the final "Demo Day" of the second season of the InnoX incubation program InnoX, where 25 startup projects were presented. As a result of the evaluation, experts and the commission selected the 10 best innovative projects, which were awarded certificates and cash vouchers, and participants were sent to participate in republican startup competitions.

2. On November 22, the Turon Bank of the Institute of Irrigation and Agricultural Mechanization of Tashkent hosted a meeting with employees of Asaka Bank for active students. During the interactive conversation, they discussed banking services, opportunities for students, and educational loans



3. On October 30, the Tashkent Institute of Irrigation and Agricultural Mechanization hosted a training seminar on "Development Strategy until 2030 in Uzbekistan". The event was attended by Shakhzoda Kurbonova, Chairman of the Mirzo-Ulugbek district Council, who spoke about expanding the coverage of higher education, improving the quality of training specialists and developing the IT sector among young people, as well as priority areas of the

development strategy until 2030

4. On October 26, TIAME hosted a training seminar for Tourism students. Experts shared their experience in the field of hotel and restaurant business, tourism logistics and other aspects of the tourism industry, as well as answered students' questions.





## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



1. At the end of the 2nd season of the InnoX business incubator InnoX, a "Demo Day" was held in the Tashkent region Demo Day, where participants presented their innovative projects. The AUTONOMOUS team, led by Azizjon Nigmatov, Senior lecturer at the TJAB Department, took 3rd place, presenting one of the top 10 innovative projects.



2. The university organized an incubation project "My Startup", in which startups of talented students were presented. Experts, including PhD student Ozodov E'zoz and DSc student Samiev Luizmon, analyzed the projects and made recommendations for their further development.

3. Dilfuza Egamberdieva received the prestigious UNESCO-Carlos Finlay Prize 2023 for her research on the interaction of plants and the microbiome, as well as the soil microbiome. She is one of the most cited scientists in Uzbekistan, with an h-index of 47 (SCOPUS), and is working to establish a school of microbiology through a project funded by the World Bank.



4. As part of the startup-accelerator "of the Milliy Hub startup accelerator program Organised by the Ministry of Higher Education, Science and Innovation of Uzbekistan and Hungary, talented students, postgraduates and scientists presented projects in various fields, including water conservation technologies. Members of the Hydroleaders team Hydroleaders from TIAME successfully completed the one-month accelerator course and were awarded certificates for Innoweek 2023.



5. During the INNO WEEK 2023 event, a memorandum of cooperation was signed between the National Research University "TIAME" and the Hungarian Startup Campus Innovation Center. The meeting covered topics such as the introduction of innovative programs, the exchange of researchers and opportunities for startups in Europe, including InnoGenthe InnoGen 2024 programs and membership in the Enterprise Europe Network.



6. As part of the "Week of Innovative Ideas", students from different universities in Uzbekistan demonstrated their inventions at the ALPOMISH music arena. Participants, including representatives of the National Research University, showed their creative and innovative developments aimed at developing various sectors of the economy.

7. Tashkent hosted the opening of the 4th International Conference on Energy, Construction and Agricultural Engineering. The conference was attended by speakers from leading universities and research institutions, such as Perlis University (Malaysia), Krakow University of Technology (Poland), Cymarepa Utara University of Sumatra (Indonesia), as well as scientists from the United States and Turkey, who presented scientific reports in the field of energy, construction and agriculture.



## 10 REDUCED INEQUALITIES



1. December 3 is the International Day of Persons with Disabilities, which has been celebrated around the world since 1992. This day was established in order to better understand the problems of people with disabilities, protect their rights and improve their living conditions. Uzbekistan also hosts various charity events and actions on this day. In particular, students of the Tashkent Institute of Irrigation and Agricultural Mechanization visited specialized boarding school No. 101 for children with special educational needs to congratulate children on the holiday and cheer them up with their concert. The event was also attended by a choir and a dance group of students, who deservedly received applause from the audience. The school's Deputy Director for Educational Work suggested organizing a theatrical performance of fairy tales within the framework of the "Fairy Tale Week" program in February, which was gladly accepted by the participants of the event.



2. On November 23, the Tashkent Institute of Irrigation and Agricultural Mechanization, the National Research University, and the Faculty of Hydraulic Engineering organized a conversation with disabled people dedicated to the International Day of Disabled People. Tutor of the Faculty of X. Saidova met with students living in the university dormitory and held a conversation with students M. Khotamov (Faculty of Economics) and Zh.Komilov (Faculty of Water Management). During the conversation, the students demonstrated their joy, knowledge and desire to study, despite the limited

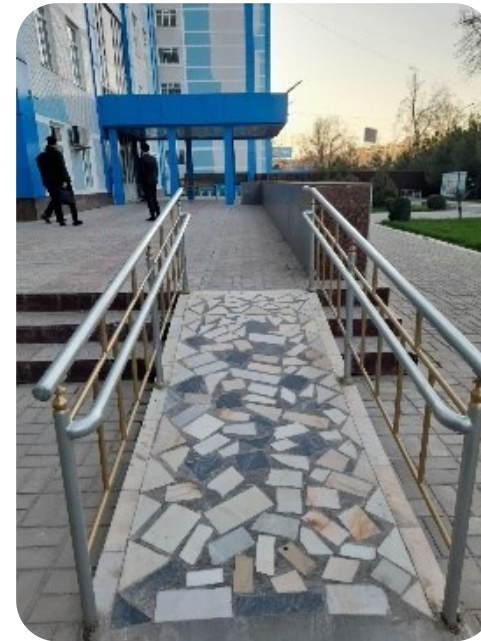


opportunities. This conversation was interesting and useful, and we wished them success in their studies and further achievements.

3. Internships in enterprises and organizations are organized for students with special needs at the university. There are also entrepreneurship courses for students with disabilities, and today they are being directed to handicraft or self-employment.



4. For students with special needs, the university provides two meals free of charge. Lunch is delivered to the university canteen and dinnery to the student dormitory..



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Conditions are created for students with special needs to move freely in public objects on campus. For their free movement, there are educational buildings, hostels, structures and corridors adapted ramps are installed. In addition, 3 dormitories on the territory of the university have been overhauled and adapted rooms for students with special needs have been arranged.



## 11 SUSTAINABLE CITIES AND COMMUNITIES



1. Work on social adaptation of students at the university, organization of various events and the successful use of their leisure time. About 4,000 students from different regions of the republic are studying at the university. In order for them to adapt to university life from the first day, explanatory work is carried out under the guidance of tutors and mentors. The university has a psychologist who works with problem students, if necessary. At the same time, various trainings are organized for the adaptation of students.

2. In order to form students' active civic position in society, to study the impact of reforms in various fields on the lifestyle of young people, online sociological surveys of students and students are conducted through social networks on the topic "Social development and a sense of involvement", on the basis of the results an analytical material is prepared by a university psychologist.

Sociological research is conducted to study students' quality education and the state of the educational process at the university.

3. It is especially noteworthy that on the university websites and on its pages, as well as on the territory of the university, there are equipped with various visual and propaganda and educational means, science, education and education, innovation, self-awareness and patriotism, physical education, sports and reading, banners with proverbs, wall plaques.



On December 6, 2023, the university organized a demonstration training within the framework of the "Fire Safety Month", which is held from November 15 to December 15 on the instructions of the Cabinet of Ministers of Uzbekistan. The purpose of the event is to prevent accidents related to fires, carbon monoxide poisoning and explosions of air-gas mixtures. During the event, specialists of the National Rescue Center under the Ministry of Emergency Situations and the Tashkent City Emergency Management Department demonstrated rescue vehicles, equipment and tools used in emergency situations, and also held a master class on their use.



In October 2023, a delegation of experts from Uzbekistan, including Associate Professor of the Department of Mechanics and Computer Modeling E. Toshmatov, visited Turkey to study experience in the field of seismic safety. During the visit, the delegation got acquainted with the emergency response system, earthquake preparedness and scientific research in the field of seismology, including the work of leading universities and institutes in Turkey.



## 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



TAKH LLC located in Tashkent city signed a bilateral agreement on waste treatment and disposal. Every week, waste is taken away in a special transit belonging to the enterprise. On the territory of the university there are special waste disposal and collection bins. Waste removal work on the territory with the involvement of special equipment and workers is carried out according to the plan. There are 2 trucks and 1 loader involved in the reculation work at the university, which is often carried out.



in "O'ZEXPOMARKAZ". The purpose of the event was to provide students with the opportunity to spend their free time with benefits, getting acquainted with the latest achievements in the field of agriculture, food industry and packaging

3. For reference, paper begins to rot only three months after it becomes waste. If it takes 400-450 years for plastic, polyethylene bags to decompose into biological components, glass can be completely lost only after a million years. It is worth mentioning that 80% of these waste products are organic matter and their recycling can produce a huge amount of energy.

New measures identified on the waste problem.

1. In Tashkent Institute of Irrigation and Mechanization Engineers systematic 1. improvement of household waste has been launched. PUK FIDOYI KOMMUNAL



One of the important stages of waste processing is the separate sorting and collection of waste. At the same time, waste is collected in separate waste containers depending on the type.

4. The university team of the department "TJAB" developed an automatic system "Defuse-IT" for irrigation, which attracted the interest of Artifex Agrochem. Professor Rano Teshabaevna Gazieva, Head of the TJAB Department, and the founder of the project, PhD Ezoz Ozodov, presented Artifex Agrochem the capabilities and technical characteristics of the Defuse-IT device to the experts of Artifex Agrochem. During the meeting, issues of commercialization and popularization of this technology through cooperation were also discussed.





## 13 CLIMATE ACTION



1. On November 24, the University hosted a seminar on climate change and water issues in Central Asia. The seminar was organized on the initiative of the Dean of the Faculty of Hydro-Reclamation, Professor A. Fathulloev, with the participation of a researcher at the Geophysical Earth Center in Potsdam, Dr. A. Gafurov. The event was attended by teachers of the Department of "Hydrology and Hydrogeology" and students of 2-4 undergraduate courses.



2. The university closely monitors and reports on its carbon footprint, demonstrating its commitment to responsibility for the environment. Each passing year witnesses a deliberate shift towards the adoption of environmentally friendly energy sources. In addition, thoughtful transitions are underway, with a phased replacement of traditional lighting as well as heating and cooling systems with advanced, energy-efficient alternatives. These steps underscore the University's commitment to a sustainable and beautiful future.

3. The university is distinguished by its faculty dedicated to environmental education, providing students with knowledge of the intricacies of studying and solving environmental problems. Offering a comprehensive bachelor's, master's and postgraduate programs in environmental education, the institution educates a generation of professionals equipped to manage and respond to natural disasters. A collaborative effort of the University's scholars and students is engaged in impactful research that continuously explores regional environmental issues and aims to develop effective measures to combat and mitigate these challenges. This commitment to environmental protection reflects the University's commitment to a harmonious and sustainable future.



On October 19, within the framework of INNOWEEK-2023, a meeting of the working group of Uzbekistan and Kazakhstan on the USAID ERAS II project was held, dedicated to restoring the ecosystem of the dried bottom of the Aral Sea. Participants discussed strategies for improving water resources management, combating drought and restoring biodiversity, as well as sharing experiences in agricultural and forestry practices.



Professor Tursunov Obid Bobokulovich from the Tashkent Institute of Irrigation and Agricultural Mechanization held lectures and master classes in Belarus as part of the "Professor Tashrifi" program. He gave lectures for undergraduates of the Faculties of Ecology and Biology on the topic of ecosystem adaptation to

climate change, and also conducted classes on the processing of organic waste and the conversion of carbon dioxide into methanol-

In order to constantly monitor climate change and environmental situations and prevent their negative consequences, our university conducts continuous research, in particular, the study of remote sensing of the greenery index of the city of Tashkent in the period 1990-2024 can be cited.

**CLIMATE ACTION**

PLAN 2030 STRATEGY



**TIAME**  
NATIONAL RESEARCH UNIVERSITY

## 14 LIFE BELOW WATER



1. A large-scale work is being carried out in our country on the systematic organization of organizational and technological processes of fish farming, repeated reproduction of fish fry and improvement of the feed base, rational use of natural and artificial water bodies, storage and processing of fish products. This is leading to the development of fish farming, as well as the processing of its products. If in 2000 the volume of fish production in the country was 9870 tons, by 2018 it reached 90984.3 tons, or 9.2 times compared to 2000. The priority task is to radically reform the industry, increase production efficiency through the widespread



introduction of intensive technologies of fish farming in the Republic. In this regard, today the study and analysis of scientific and practical aspects of the development and improvement of the efficiency of the fishing industry is one of the most pressing issues.

2. Decree of the President of the Republic of Uzbekistan dated February 7, 2017 No. UP-4947 "On the Strategy of Action for Further Development of the Republic of Uzbekistan", May 1, 2017 N PP-2939 "On Measures to Improve the Management System of the Fisheries Industry", Resolutions of November 6, 2018 N PP-4005 "On additional measures for the further development of the fisheries sector" and other regulatory and legal regulations related to this activity To a certain extent, the research of this dissertation serves to carry out the tasks set out in the documents.

3. The thesis was completed within the framework of the applied project No. 20170929275 "Improvement of the economic foundations of the fishing industry in improving the country's food supply" according to the plan of research work and state scientific and technical programs of the Tashkent



University of Irrigation and Agricultural Mechanization Engineers.

Introduction of research results. on the basis of scientific results on development and improvement of the efficiency of the fishing industry:

The proposal on indicators of cost efficiency of fish breeding in private entrepreneurship was introduced by the State Committee of the Republic of Uzbekistan for veterinary and livestock development (certificate of the State Committee of the Republic of Uzbekistan for veterinary and livestock development of September 6, 2019, No. 02 / 23-1305). The implementation of this proposal would allow for an assessment and analysis of the cost-effectiveness of fish farming in intensive fisheries;

Recommendations on scientifically based standards of expenditure of material and labor resources in the fisheries industry are implemented by the State Committee of the Republic of Uzbekistan for Veterinary and Livestock Development, the Ministry of Economy and Industry of the Republic of Karakalpakstan



(State Committee for Veterinary and Livestock Development of the Republic of Uzbekistan of September 6, 2019 N 02 / 23-1305 of the Ministry of Economy and Industry of the Republic of Karakalpakstan Reference No. 01/568(a) dated 31 May 2019). Implementation of these recommendations allowed to increase the cost of feed required to catch 1 kg of fish by 10%, the cost of mineral fertilizers by 13%, labor costs by 7%, energy consumption by 24% and profitability by 11.6%;







1. With the support of the founders of the project of the Eberswalde University of Sustainable Development (TIAME) National Research University of Irrigation and Agricultural Mechanization Engineers ("Tashkent University of Irrigation and Agricultural Mechanization" MTU), a hybrid roundtable "Improving energy efficiency in the construction sector through the use of renewable raw materials of agroforestry systems" was held. During the conference, information was exchanged about the processing and effective use of timber in Uzbekistan in order to expand the range of undergraduate and graduate programs at the university..



2. In addition, at the faculty of "Land Resources Management" the following research works are being carried out on the development of the bases for improving methods of organizing the effective use of land resources of the Republic of Uzbekistan:

- Improving the method of mapping for analysis, monitoring, and cadastral reporting of the reclamation status of irrigated lands based on the ArcGIS program.

- Organizational and technical aspects of recultivation of damaged lands

- Optimization of land and cultivated areas in the organization of remote areas based on digital technologies

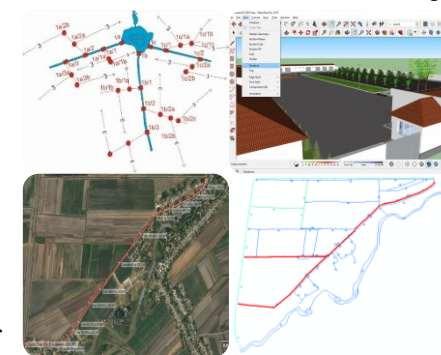
- Improving the method of drawing up digital farm cards based on innovative technologies

- Improving the method of land accounting based on the programs of the geoinformation system in the organization of digital agriculture



Geoinnovative technologies to promote efficient land use The following results were obtained by researchers of the Department of Soil Science from the research work "Study of the effects of erosion processes on mountain and foothill soils": as a result of the weak ability of the soils of the Western Chatkal mountain slope to resist erosion and the slowness of measures, it was revealed that the rapid development of erosion processes was revealed; It was found that the dependence of the structure of the mountain slope

soil cover on climate, relief, and vegetation condition led to the formation of dark-colored gray and brown soils in vertical zonality; Mountain brown soils are divided into carbonate, typical, and alkaline types, depending on the development conditions. At the same time, the mechanical composition of soils of the territory studied on the topic "Analysis of agrochemical and physical properties of soils" is mainly of medium sandy and less heavy sand, where dust fractions predominate, which is due to weak erosion of soil-forming rocks. In the middle part of the soil section (muddy), silt fractions (<0.001 mm) are collected.



3. In celebration of World Earth Day, "TIAME" National Research University organized a dynamic event aimed at promoting awareness of the Sustainable Development Goals (SDGs) closely linked to environmental protection on 18-21 April, 2023. The event focused on critical goals such as Climate Action (SDG 13), Life on Land (SDG 15), and

Affordable and Clean Energy (SDG 7).



The integration of education and production has been successfully established at the university.

In order to radically revise the content of personnel training in accordance with the priority tasks of socio-economic development of the country, to create the necessary conditions for the training of specialists with higher education at the level of international standards, the President of the Republic of Uzbekistan adopted a resolution dated April 20, 2017, No PP-2909 "On measures for the further development of the higher education system". We can see the implementation of this decision in all areas of education. Each professional training cafeteria has a branch of the department in production enterprises corresponding to the direction of education.

On December 21, 2023, TIAME University hosted a preventive training on the topic "No corruption in the industry" with the participation of 2nd-year students of the correspondence department. The event was organized jointly with the head of the Anti-Corruption Department A. Gapparov, specialist I. Karimdzhonov and the head of the correspondence department Sh. The Mardonovs. During the training, students were taught about the articles of the Criminal Code of Uzbekistan related to corruption, such as "Modification of computer information "(Article 2784)," Receiving a bribe "(Article 210) and" Mediation in bribery " (Article 212). Questions were also raised about the HEMIS system and liability for unauthorized changes in data. The event ended with a thank you from the management of the correspondence department for their active participation and support in holding such events.



Work done at the university in the field of social support of the population in the country.

In accordance with paragraph 9 of the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan dated September 17, 2021, practical work is being done to pay contract fees to 40 needy women studying at the university who have lost a breadwinner.

In the 2023-2024 academic year, the university had 27 orphans and foster students. The contract money of these students was fully realized from within the budgetary funds of the university. (More information can be found in the Spirituality section)

In addition, professors, teachers and staff are regularly sent to hospitals by the university trade union committee, to organize various entertainment events on holidays, to organize tourism. (расмлари Профкомда бор)

"Green space" at the university.

"If Uzbekistan says it will improve the ecology, let it plant two trees from each room every year. Each organization should plant five trees, no matter which organization it is. Is it higher education, school, medicine, large enterprises? That's what we're trying to do, until spring begins. Our people support, of course. If we do this, we will be blessed," the head of state said. In this project, the university actively participates with its community in its own fields. (we can put a picture).

In accordance with the Decree of the President of the Republic of Uzbekistan dated May 12, 2023 PF-70, in order to implement paragraph 17.1 of the Program of Events dedicated to the 75th anniversary of the adoption of the Universal Declaration of Human Rights, a special course on "New Uzbekistan-human rights" was organized at the Faculty of "Land Resources and Cadastre". The main goal of this course is to develop students ' theoretical knowledge and practical skills on the adoption of normative legal acts in the field of human rights protection, which is a priority area of state policy in Uzbekistan. In addition, the course aims to increase students ' legal literacy in the field of human rights and develop an understanding of the importance of a human rights culture in society



The Decree of the President of Uzbekistan dated August 22, 2019 states that renewable energy in Uzbekistan in 2030

The share of the total electricity generation of these sources will be delivered to 25%. At the moment this figure is 10-12 percent. To achieve the desired result within the specified timeframe, the Ministry of Energy of Uzbekistan is taking measures to implement large projects related to renewable energy sources.



## 17 PARTNERSHIPS FOR THE GOALS



1. From Kokrit-ota University, headed by the head of the Department of "Electric Power, Biosphere and Ecology" Baurujan Otarbayev, the university was shown the activities of the Department of "Automation and Process Control" and its innovative laboratory. The delegates showed great interest in the automated water treatment system "Defuse-IT" and offered cooperation on its application in the conditions of Kyzylorda.

This cooperation plays an important role in the development of interregional relations and the introduction of environmentally sustainable technologies



considered.

3. On November 26, a delegation from Malaysia, including Ambassador Ilham Tua bin Ilyas and the Rector of Terengganu University, visited the National Research University NQXMMI. During the meeting, they discussed cooperation in the field of education and



2. Within the framework of the initiative of the coordinators of the faculties "Hydraulic engineering" Yoldoshev Muhammad Amin and "Economics" Radzhabov Avozbek, the first meeting of youth associations of faculties was held. The purpose of the meeting was to introduce the teams and exchange views. During the discussion, issues of joint implementation of upcoming tasks, as well as creating healthy competition between teams in the field of sports, science and intellectual projects were

alternative energy, as well as the development of joint projects, including algae and information technology.

4. On November 26, a delegation from China, including the CEOs of Xinjiang Tianye and Beifang Construction, visited the National Research University TIAME to discuss cooperation in water-saving irrigation technologies. During the meeting, an agreement was reached to introduce an automated irrigation system on 5



hectares and a drip irrigation system on 15 hectares in the university's pilot farm in early 2024



5. A representative of Azerbaijan State University, PARVANA MOVSUMOVA, visited the National Research University TIAME to get acquainted with the experience in the field of international rating. During the meeting, an agreement was reached to expand cooperation and work together

with Baku State University on monitoring and improving the QS rating.

6. On December 4-5, a conference of experts on higher education reform was held in Barcelona, where Ilkhom Abdurakhmanov, a representative of the National Research University "TIAME", took part with a report from Uzbekistan. The conference was dedicated to stimulating reforms in higher education, improving quality and developing innovative approaches.





7. On December 4-11, the University hosted an academic week for students of the Faculty of Energy Construction of the Belarusian National Technical University. During the visit, five students and the Deputy Dean of the faculty completed an internship organized by the university

8. Within the framework of international cooperation between the Tashkent Institute of Irrigation and Agricultural Mechanization and the Obuda University of Hungary, two students completed the Erasmus+ mobility program and successfully completed a semester in geoinformatics. The award ceremony was attended by representatives of the university, including the Vice-rector and program coordinators.



9. On November 28, a webinar was held for students about the Master's degree in Geoinformatics in Hungary, organized by the Tashkent Institute and Obuda University. The webinar, with the participation of Professor Tom Yancho, was devoted to the requirements, conditions of study and opportunities for scholarships for undergraduates.

10. On June 27, 2023, the first Innovative Training Center for Wood Processing in Uzbekistan was opened, organized within the framework of cooperation between TIAME and the Austrian company FELDER KG. The opening ceremony was attended by the rector of the university, professor and teachers, as well as high-profile guests, including company managers and representatives of the Austrian diplomatic mission.



11. The delegation of TIAME National Research University met with representatives of one of the leading universities in Malaysia — Mara University of Technology (UTM) in Kuala Lumpur. The meeting discussed issues of student and teacher exchange, double degree programs and support for startups, as well as their implementation



and commercialization.



12. The delegation of the National Research University "TIAME" took part in an official meeting with representatives of the Malaysian Multimedia University (MMU), organized to discuss cooperation opportunities. Preliminary agreements were reached on joint scientific research, organization of scientific

conferences, implementation of joint projects, academic exchange and a student exchange program.

13. A delegation from TIAME National Research University participated in THE Innovation&Impact Summit organized by Times Higher Education Agency and SUSTech University SUSTech in Shenzhen, China. The summit discussed innovations in THE Impact rating and ways to achieve the UN Sustainable Development Goals, with reports from leading organizations and educational institutions.







14. As part of the QS Higher Education Summit Asia Pacific 2023 exhibition, the delegation of TIAME National Research University visited the leading universities of Malaysia: Kebangsan University (UKM, top 200), University of Management and Science (MSU, top 700) and Asia-Pacific University (APU, top 700). The main purpose of the visit was to get acquainted with the activities of these universities and identify areas for future cooperation

15. At today's event, the University's Vice-rector for Academic Affairs Bakhtiyor Khudoyarov began with warm congratulations and noted the success and activity of Kazakhstani students in the educational process. 15 students of the Kormanov Kazakh University Корманова, who studied for academic mobility from September 11 to November 25, completed their semester successfully, gaining 20 credits. Students were trained in the areas of "Water Management and Land Reclamation" of the Faculty of "Hydro-Reclamation" and "Land Cadastre and Land Management" of the Faculty of "Land Resources and Cadastre". In honor of the successful completion of the semester, they were awarded certificates and transcripts.



16. On November 21 of this year, a delegation Keymyung of Keymyung College from South Korea visited the National Research University "Toshkent Institute of Irrigation and Agricultural Mechanization". The official meeting was held at the University's British Council Center. The meeting was

opened by the Rector of the University, Professor Bahodir Mirzayev, who introduced the partners and participants

17. Using these opportunities, Professor Aibek Arifzhanov, Head of the Department of Hydraulics and Hydroinformatics, is currently conducting a research trip to China. At the invitation of the Chinese Academy of Sciences, he visited the Xinjiang Institute of Ecology and Geography to discuss prospects and opportunities for cooperation under the Great Silk Road initiative.

18. On November 16, 2023, within the framework of the project "Creation of an integrated system for training national spatial data in Uzbekistan", implemented by the Ministry of Economy and Finance of the Republic of Uzbekistan together with the Ministry of Land, Infrastructure and Transport of the Republic of Korea, a delegation of Korean specialists visited the National Research University "TIAME".



19. Visit of the Chinese delegation to establish cooperation in the field of water resources. The delegation, led by Deputy Party Secretary of the city and Deputy Mayor Li Guang, also included high-profile representatives of organizations such as the city's Department of Foreign Trade, Agriculture and Agricultural Affairs, as well as a number of heads of major Chinese companies and investment organizations, including those from Xinjiang and Jezhen. During the visit, opportunities for establishing mutually beneficial cooperation in the field of water resources and agriculture.