



KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY



Khalel Dosmukhamedov Atyrau University supports the implementation of Sustainable Development Goal 1 (No Poverty), recognizing education as one of the most effective tools for improving quality of life, promoting social mobility, and expanding opportunities for young people.

The University acknowledges that access to quality education, professional training, and employment opportunities contributes to reducing social inequality and mitigating the risks of poverty. Therefore, special attention is given to creating conditions in which talented and motivated students, regardless of their social background, can fully realize their potential.

The University's activities are aimed at expanding access to higher education through a system of educational grants, scholarships, academic support programs, and initiatives designed to develop students' potential. A significant contribution to the achievement of SDG 1 is made through the provision of rector's grants to winners of intellectual competitions and academic Olympiads, international scholarships, and participation of students in national and international educational support programs.



"Ustaz" School



One of the most significant initiatives of Khalel Dosmukhamedov Atyrau University in support of Sustainable Development Goal 1 (No Poverty) is the School "Ustaz", established in the 2021–2022 academic year. The project aims to support rural youth and create equal educational opportunities for children from socially vulnerable backgrounds. Between 2021 and 2025, approximately 250 students from seven districts of the Atyrau Region participated in the program. The majority of participants were orphans, children from single-parent families, and young people facing difficult life circumstances. To ensure broad access to the project, the University established close cooperation with district administrations, education departments, and social welfare institutions. A comprehensive social support system plays a key role in the project. All students are provided with free accommodation in dormitories, five meals a day, access to purified drinking water, and free preparation courses for the Unified National Testing (UNT). These measures significantly reduce the financial burden on families and create opportunities for quality education regardless of students' place of residence or social background.

The project not only improves access to education but also contributes to the long-term reduction of poverty risks through the development of human capital. Many graduates successfully enroll in higher education institutions in Kazakhstan and abroad, participate in academic mobility programs, and achieve outstanding academic results. A significant number of graduates choose teaching careers and later return to work in schools across the region, thereby contributing to the development of rural communities.

The School "Ustaz" operates with the support of social partners, public organizations, and the Board of Trustees. Through this cooperation, a medical room was established, and incentive awards were introduced for students who achieved high results in academic Olympiads and competitions.



ASUMIT Charity Club

The ASUMIT Charity Club is a student-led charitable organization of Khalel Dosmukhamedov Atyrau University whose activities are aimed at supporting socially vulnerable groups. Club members provide assistance to elderly people, orphans, low-income families, and other individuals in need of care and support. The club actively promotes volunteerism, organizes charity initiatives, and fosters the values of compassion, mutual assistance, and social responsibility among students, thereby contributing to the achievement of Sustainable Development Goal 1 (No Poverty).





Educational Opportunities and Support for Talented Youth

The University promotes access to educational opportunities through various forms of financial and academic support. These initiatives include rector's educational grants for winners of national academic Olympiads, international named scholarships, and academic mobility programs. The awarding of the Heydar Aliyev International Scholarship and the provision of rector's grants to the winners of the Altyn Tulek Olympiad serve as examples of the University's commitment to supporting talented young people and enhancing access to higher education.

Future Steps Towards Achieving SDG 1

Khalel Dosmukhamedov Atyrau University views education as one of the key instruments for reducing poverty and enhancing the social mobility of young people. The University will continue its efforts to expand access to quality education for students from rural areas and socially vulnerable groups.

The University's priority areas for future development include:

- expanding the activities of the School "Ustaz" and increasing its outreach among rural youth;
- developing educational grant and scholarship support programs;
- strengthening cooperation with government agencies, social partners, and charitable organizations;
- expanding the volunteer and charitable initiatives of the ASUMIT Charity Club;
- supporting graduate employment and improving graduates' competitiveness in the labor market.

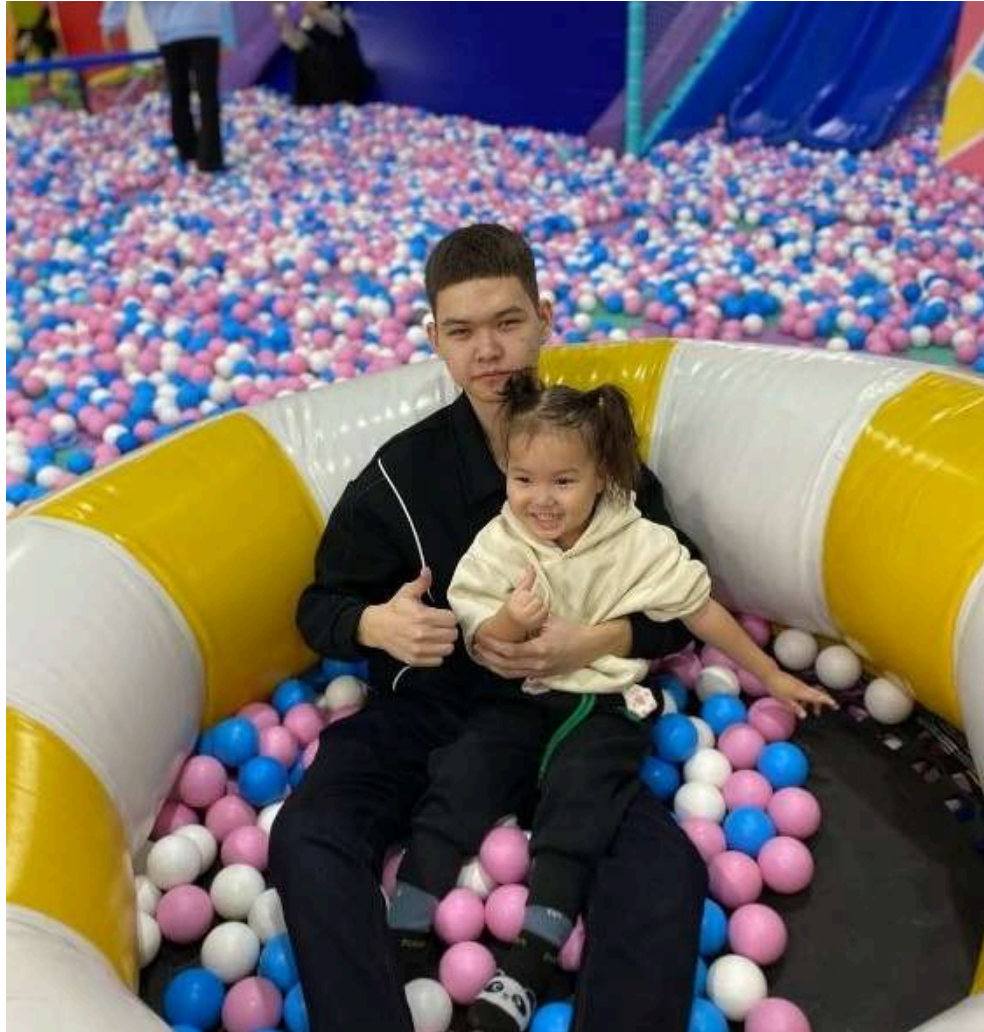
The University's contribution to the achievement of SDG 1 is comprehensive and focused on creating equal opportunities for every student regardless of their social background. Through its educational and social initiatives, the University contributes to improving the quality of life of young people, developing human capital, and building a more equitable and sustainable society.





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Support for Socially Vulnerable Groups

As part of the implementation of United Nations Sustainable Development Goal 2 (Zero Hunger), the ASU UMIT charitable organization of Khalel Dosmukhamedov Atyrau University carries out ongoing initiatives to support families in need.

The foundation organized a food assistance campaign aimed at socially vulnerable groups of the population. Food packages were distributed to large families, elderly people, and individuals facing difficult life circumstances.

In addition, the organization's volunteers regularly organize fundraising campaigns and collect food supplies for low-income families. Through these charitable initiatives, families in need receive food, clothing, and other essential items.

These activities contribute to reducing social vulnerability, strengthening food security, and promoting the values of solidarity, compassion, and mutual support within the community.

Development of Volunteerism and Charitable Initiatives

The ASU UMIT charitable foundation plays an important role in the University's contribution to Sustainable Development Goal 2 (Zero Hunger) by implementing social and charitable initiatives on a regular basis.

The foundation brings together active students who provide support to families in need, children, elderly people, and other socially vulnerable groups.

Its key initiatives include:

- charity fundraising events;
- food assistance for low-income families;
- support for large families;
- participation in social and volunteer projects;
- organization of charitable activities for children.

The foundation's activities foster a culture of social responsibility, compassion, volunteerism, and active civic engagement among students.



Research on Food Security and Sustainable Agriculture



Khalel Dosmukhamedov Atyrau University conducts research projects aimed at strengthening food security and promoting sustainable agricultural development.

In 2026, the Department of Economics launched the research project “Technology for the Production of Environmentally Friendly Lamb and Mutton in the Desert Zone of the Atyrau Region,” funded through the research and development program supported by the budget of the Atyrau Region.

The project focuses on developing efficient technologies for the production of environmentally friendly livestock products adapted to the region's environmental conditions. The research outcomes are expected to enhance the sustainability of agricultural production and contribute to strengthening regional food security.

Innovative Developments in the Agricultural Sector

The University conducts research aimed at advancing the agro-industrial sector and promoting the sustainable use of natural resources.

The following research projects and scientific developments are being carried out:

- Method for Cultivating Prostrate Saltwort;
- Method for Producing Animal Feed from Prostrate Saltwort;
- Method for Protecting Clay and Heavy Loam Soils from Salinization and Irrigation During the Cultivation of Forest and Fruit Crops;
- Food Security in Kazakhstan: Analysis of the Current State and Strategies for Sustainable Development;
- Fundamentals of the Strategy of Modernization of the Agro-Industrial Complex in the Context of Climate Change and Economic Challenges;
- The Effectiveness of Cooperative Farming in Livestock Production in Kazakhstan.

The outcomes of these studies contribute to the development of sustainable agriculture, improved livestock production, enhanced feed resources, and the preservation of soil fertility, thereby supporting long-term food security.

Future Steps Towards Achieving SDG 2

Khalel Dosmukhamedov Atyrau University remains committed to advancing its contribution to Sustainable Development Goal 2 (Zero Hunger).

The University's key priorities include:

- expanding support programs for socially vulnerable groups;
- further developing charitable and volunteer initiatives;
- conducting research in the field of food security;
- introducing innovative technologies in agriculture;
- strengthening cooperation with agricultural organizations and public foundations;
- promoting the principles of responsible consumption and sustainable development.

Through these initiatives, the University aims to strengthen food security, support sustainable agricultural development, and enhance its contribution to the achievement of the United Nations Sustainable Development Goals.



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Promoting Physical Activity and Sporting Excellence

Khalel Dosmukhamedov Atyrau University places great emphasis on the development of physical culture and the promotion of a healthy lifestyle among students. The University actively supports student participation in regional, national, and international sporting events. Students and staff regularly take part in marathons and athletics competitions that promote physical activity and well-being.

Representatives of the University have successfully participated in the "From Europe to Asia" Marathon, Atyrau Marathon 2026, the XIII Summer Universiade, and the II National Sports Games among universities of the Organization of Turkic States.





A special source of pride for the University is Alfiya Tlekkabyl, a student, Asian Para Judo Champion, winner of international competitions, and participant in the Paralympic Games.





Supporting Psychological Well-Being

Khalel Dosmukhamedov Atyrau University places great importance on the emotional well-being and social engagement of different population groups. As part of the “Silver University” project, educational and art therapy programs are implemented to improve psychological well-being, foster creativity, and enhance the quality of life of older adults.

Such initiatives contribute to strengthening intergenerational connections, promoting social inclusion, and creating a supportive environment for active and healthy ageing.





Science and Health

The University promotes the dissemination of modern knowledge in the fields of health and medicine through scientific seminars, educational events, and cooperation with healthcare organizations.

One example is the scientific seminar “In Vitro Fertilization in Kazakhstan: Development and Achievements”, organized in partnership with the Ecomed-Atyrau Clinic. The event provided students with an opportunity to learn about recent advances in reproductive medicine and innovative medical technologies.



Inclusive Education and Support for Children with Special Needs

Khalel Dosmukhamedov Atyrau University actively promotes an inclusive educational environment and provides support for children with special educational needs.

The University hosts the “Daryn” Resource Center for Inclusive Education, which provides speech therapy and psychological support to children with special educational needs. The center also serves as a scientific and practical platform for training future specialists in the field of inclusive education.

The center organizes regional forums, international conferences, and scientific discussions on the social adaptation of children with autism and the development of an inclusive society, bringing together researchers, educators, and practitioners from Kazakhstan and abroad.




Contribution to SDG 3

Through the promotion of sports and physical activity, support for psychological well-being, implementation of inclusive education principles, and dissemination of health-related knowledge, Khalel Dosmukhamedov Atyrau University contributes to the achievement of Sustainable Development Goal 3 – Good Health and Well-being. The University's initiatives help foster a healthy, active, inclusive, and socially responsible society while promoting the well-being and quality of life of students, staff, and the wider community.



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Innovations in education and practice-oriented learning Atyrau University named after H. Dosmukhamedova actively implements modern educational approaches focused on practical training of specialists and integration of education with the needs of economic sectors.

One example is the seminar "Trends and innovations of the fishing industry 2025", which discussed issues of dual education, dual degree programs, the introduction of artificial intelligence in fisheries and the prospects for the development of scientific research. Special attention was paid to the training of specialists who are able to work effectively in the context of the technological transformation of the industry.

Practice-oriented learning is also implemented through students' meetings with employers and representatives of government organizations. The open day at the Zhaiyk-Caspian Basin Inspection allowed future ecologists and fisheries specialists to familiarize themselves with the specifics of their professional activities and the requirements of the industry.



International cooperation and academic mobility

Atyrau University named after H. Dosmukhamedova consistently expands international cooperation, creating additional educational and scientific opportunities for students and teachers. The University actively cooperates with foreign universities and international organizations, participates in educational exhibitions and academic forums.

As part of the development of international relations, official meetings were held with the Asian International University (Uzbekistan) and Baku Eurasian University (Azerbaijan), as well as a visit by a university delegation to Azerbaijan. Representatives of the University took part in the international educational exhibition in China and the IV Forum of the Eurasian Network University.

An important area of support for talented youth is the Heydar Aliyev International Scholarship, awarded annually to the best students of the university. The ongoing initiatives contribute to the development of academic mobility, strengthening international partnerships and improving the quality of education.







Scientific research and innovative activity of students

Atyrau University named after H. Dosmukhamedova actively engages students in research and project activities, creating conditions for the development of research, innovation and entrepreneurial competencies.

University students successfully present their projects at competitions and forums of various levels. In particular, the students took part in the JasSpace Project Challenge 2024 innovation project competition, where they presented a project in the field of environmental innovation and sustainable development, winning a prize. The students also participated in the International Environmental Forum of the Caspian Littoral States, where, together with participants from different countries, they developed initiatives to preserve the ecosystem of the Caspian Sea. A significant contribution to the development of research culture is made by the Ecos environmental circle, whose members develop innovative projects in the field of waste recycling, bioplastics production and the creation of environmentally friendly materials. A number of student initiatives have received support in the startup format and are aimed at solving urgent environmental problems in the region.

Student achievements and talent development

University students successfully represent the university at national and international educational venues. The university team won a prize in the quarterfinals of the International Collegiate Programming Contest (ICPC), the students won the republican intellectual TV project "Azamat", and the projects "BIZSTART" and "Game-Up" were recognized as the best at the XIII International Championship of Start-Up projects "Youth and Entrepreneurship".

The high results of the students are also confirmed by their participation in international forums, scientific competitions, debate tournaments and academic mobility projects, which contributes to the development of leadership skills, research skills and professional competencies.





Teacher training and professional development



Atyrau University named after H. Dosmukhamedova pays special attention to the development of pedagogical skills and continuing education. Educational seminars and trainings on modern educational technologies, digital tools, gamification, 21st century skills development and innovative teaching methods are regularly held for teachers and future educators. Practical training of future teachers is carried out through the projects "Pedagogical Workshop", implemented jointly with the Nazarbayev Intellectual School of Atyrau, and "PROF step: curation and mentoring", organized jointly with the gymnasium school No. 41 named after Abish Kekilbayuly. In addition, the university implements teacher retraining programs aimed at training specialists for the region's education system.



FUTURE STEPS TOWARDS ACHIEVING SDG 4



Atyrau University named after H. Dosmukhamedova will continue to work on improving the quality of education, expanding international cooperation and developing an innovative educational environment in accordance with the principles of Sustainable Development Goal 4 "Quality education".

Among the priority areas of development:

- expansion of academic mobility programs for students and teachers;
- strengthening cooperation with foreign universities and international educational organizations;
- development of inclusive education and further improvement of the Daryn Resource Center;
- support for students' research activities and development of student startup projects;
- introduction of modern digital technologies and innovative teaching methods;
- expansion of pedagogical retraining and advanced training programs for teachers;
- development of practice-oriented learning through interaction with employers and social partners.

By implementing these areas, the university strives to provide affordable, high-quality and modern education that promotes the development of human capital, the training of competitive specialists and the formation of a knowledge society.

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Gender policy and equal opportunities

Atyrau University named after H. Dosmukhamedova implements the principles of the UN Sustainable Development Goal No. 5 "Gender Equality", ensuring equal rights and opportunities for students and staff, regardless of gender. The University adheres to the principles of non-discrimination, academic integrity and equal access to education, professional development and participation in management activities.

The University's strategic documents stipulate the requirement that the proportion of women in leadership structures should be at least 30%. To date, this indicator has been significantly exceeded. Of the 79 heads of the university's structural divisions, 58 are women, which is 73%. In addition, the executive body of the management board consists of 3 women out of 6 members, which is 50%.

SUPPORT FOR WOMEN'S LEADERSHIP

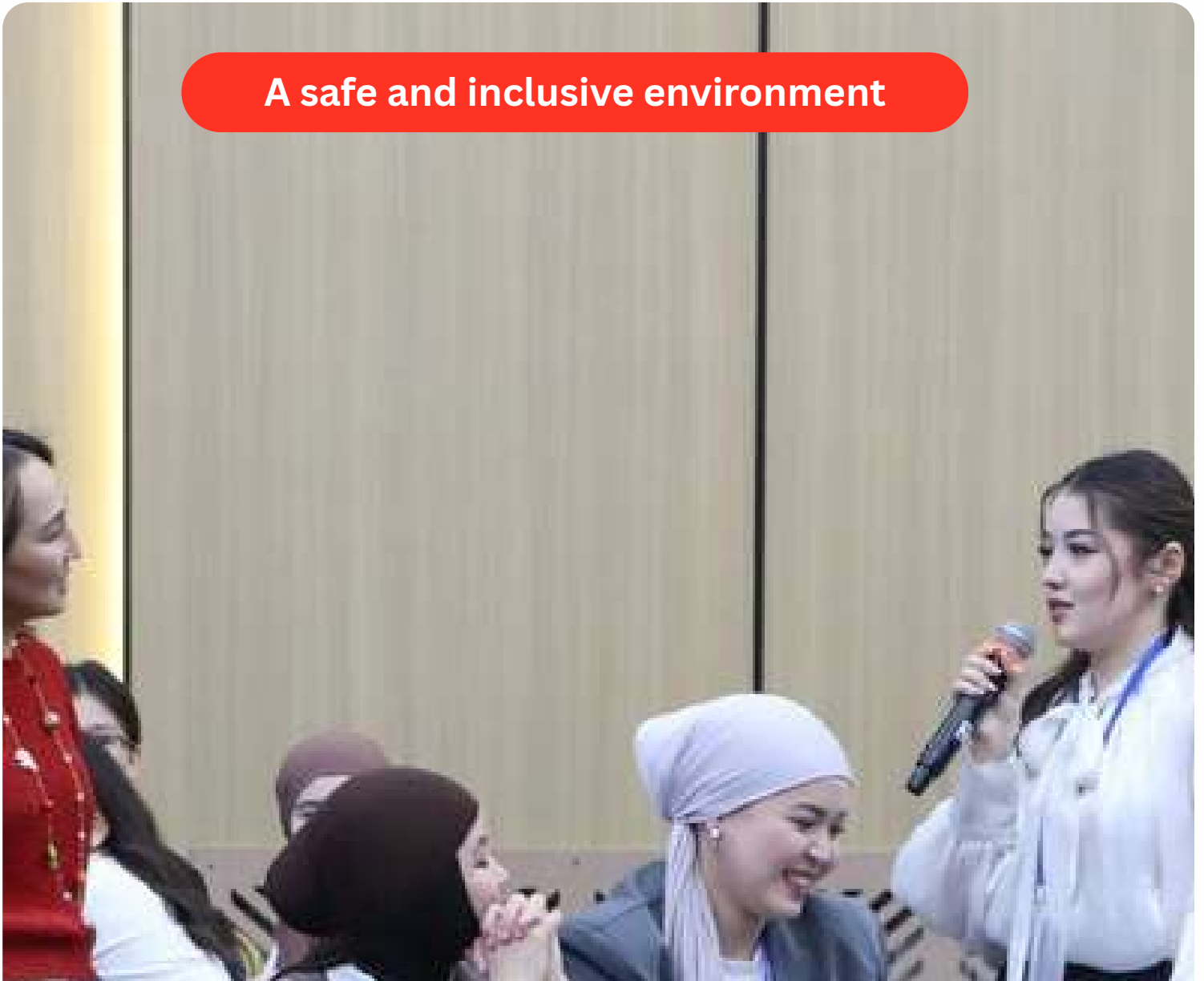
The University pays special attention to developing the leadership potential of girls and supporting their active participation in public life. Within the framework of the Tomiris project, a training seminar "NextGen Leaders" was implemented.: Kizdardyn koshbasylyk zholy", aimed at the development of leadership qualities, professional skills and social activity of girls.

The program was attended by 70 participants who passed a competitive selection of 140 applicants. The training addressed issues of leadership, psychology, media, etiquette, and the role of women in modern society.





A safe and inclusive environment



Educational events contribute to the formation of a culture of respect for women's rights and to ensuring a safe educational environment. One of these events was the forum "Stop Stalking: a step towards a safe society together!", dedicated to countering stalking, forced marriage, domestic violence and protecting women's rights.

The Forum brought together representatives of law enforcement agencies, the Commissioner for Human Rights, women's protection specialists and representatives of public organizations, contributing to improving the legal literacy of young people.



Development of girls' social activity

An important role in the development of social activity of female students is played by the Kyz Zhibek club, whose activities are aimed at the personal development of girls, popularization of national values, preservation of cultural traditions and increasing the social activity of young people.

The club organizes educational, cultural and educational events that promote the development of leadership skills, social responsibility and civic engagement of girls.

FUTURE STEPS TOWARDS ACHIEVING SDG 5

Atyrau University named after H. Dosmukhamedova will continue to implement the equal opportunities policy and develop initiatives aimed at strengthening gender equality, increasing women's participation in public and professional life, as well as creating a safe and inclusive educational environment.

Among the priority areas of development

- are the expansion of programs for the development of women's leadership and support for girls' initiatives.;
- further development of the Tomiris project and other educational programs aimed at improving the leadership and professional competencies of young women;
- strengthening mechanisms for the prevention of gender-based violence, discrimination and human rights violations;
- expansion of the activities of the Kyz Zhibek club and the involvement of more female students in public and educational projects;
- support for girls' participation in research activities, student government, innovative projects and international programs;
- maintaining the principles of gender balance and equal opportunities in the formation of university management and academic structures.

By implementing these areas, the university strives to create conditions in which every student and staff member can realize their potential, regardless of gender, contributing to the formation of a fair, inclusive and sustainable society.



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СУ РЕСУРСТАРЫН ҚАҒАУ



Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 6 "Clean water and sanitation" through scientific research, environmental education and practical initiatives aimed at preserving the region's water resources. Special attention is paid to the issues of sustainable water resources management, protection of ecosystems of the Caspian Sea and the Ural River, access to high-quality drinking water and development of sanitary infrastructure.



WHAT DOES THIS MEAN FOR ATYRAU UNIVERSITY NAMED AFTER H. DOSMUKHAMEDOV

Located in the Caspian region, the University considers water security issues as one of the key areas of its educational and scientific activities. The University's research covers the issues of water supply, sanitation, environmental monitoring, conservation of aquatic ecosystems and sustainable use of water resources in the context of climate change and anthropogenic stress.





Researches



The University's significant contribution to the achievement of SDG 6 is related to research in the field of water resources, sanitation and environmental safety. Currently, the scientific project GF AR2390925 is being implemented, dedicated to achieving the Sustainable Development Goals of ensuring safe access to water, sanitation and sewerage using artificial intelligence and machine learning methods.

In 2024-2025, university researchers, together with international partners, conducted a comprehensive assessment of access to drinking water and sanitation in rural areas of Atyrau region. Based on the results of the study, recommendations were developed to improve the water infrastructure and improve the quality of water supply in the region. A special place is occupied by the research of the Caspian Sea and the Ural River. University scientists are studying changes in water levels, the state of biodiversity, the impact of industrial activity on aquatic ecosystems, as well as issues of preserving the natural resources of the Caspian region.



Education and environmental awareness

The University promotes the formation of a culture of rational water use through educational programs and environmental initiatives. Lectures, environmental hours, forums and round tables on water security, water resources protection and sustainable development are regularly held for students.

As part of the Taza Kazakhstan campaign, environmental events were organized to save water, preserve the ecosystems of the Caspian Sea and the Ural River, as well as the rational use of natural resources. Students receive practical knowledge from specialists of the Zhaiyk-Caspian Basin Inspectorate, the Akzhayk State Nature Reserve and leading ecologists of the region.





Scientific and industry cooperation



The University actively cooperates with government agencies, environmental organizations and enterprises of the fisheries industry. Issues of conservation of aquatic biological resources, sustainable fisheries, development of aquaculture and environmental monitoring of water bodies are discussed within the framework of international forums, scientific seminars and industry meetings. This approach allows the university not only to train specialists in the field of ecology and water resources, but also to participate in solving urgent environmental problems in the region.

FUTURE STEPS TOWARDS ACHIEVING SDG 6

Atyrau University named after H. Dosmukhamedova will continue to develop scientific research, educational programs, and partnership initiatives aimed at conserving water resources and ensuring sustainable management of the region's aquatic ecosystems.

Among the priority areas of development

- are the expansion of research in the field of water supply, sanitation and water quality monitoring using modern digital technologies and artificial intelligence methods.;
- further study of the ecological status of the Caspian Sea and the Ural River, as well as factors affecting the conservation of their ecosystems;
- development of cooperation with government agencies, scientific organizations and international partners in the field of water resources protection;
- Increasing student participation in research, environmental forums, and projects on water security and sustainable development;
- support of scientific initiatives on conservation of biodiversity of the Caspian region and rational use of water resources;
- improving the environmental literacy of young people and promoting a culture of responsible water use.

The implementation of these areas will allow the university to strengthen its contribution to ensuring access to clean water, preserving aquatic ecosystems and achieving the UN Sustainable Development Goal No. 6 "Clean water and sanitation".





KH ALEL DOSMUKH AMEDOV ATYRAU UNIVERSITY





Affordable and clean energy

Dosmukhamedov Atyrau

University contributes to the achievement of the UN Sustainable Development Goal No. 7 "Affordable and clean Energy" through scientific research, the development of environmentally sustainable technologies and the training of specialists for the green economy. The University supports initiatives aimed at exploring renewable energy sources, improving energy efficiency, and implementing environmentally sound solutions.



Research and innovation



The University's research activities cover a wide range of topics related to energy and sustainable development.

Among the ongoing projects is AP19174589 "The Influence of Defects on the Atomic and Electronic Properties of Platinum-Based Transition Metal Dichalcogenides," as well as research on building energy efficiency, the analysis of Kazakhstan's residential energy supply system, and the relationship between energy consumption, environmental pollution, and economic growth. These studies contribute to the development of energy-efficient technologies, promote the sustainable use of energy resources, and support scientific solutions for sustainable economic and environmental development. Additional contributions to the development of environmentally sustainable technologies are made through student projects of the "Ekos" Environmental Club, which focus on waste recycling, the development of environmentally friendly materials, and the promotion of circular economy principles.

Education and environmental culture

Educational events and environmental initiatives contribute to the formation of a culture of sustainable energy consumption. As part of the "Taza Kazakhstan" campaign, a curatorial hour "Zhasyl Energy: Kun Zhane zhel energiyasy" was organized for students, dedicated to solar and wind energy, the advantages of renewable energy sources and their role in environmental protection.





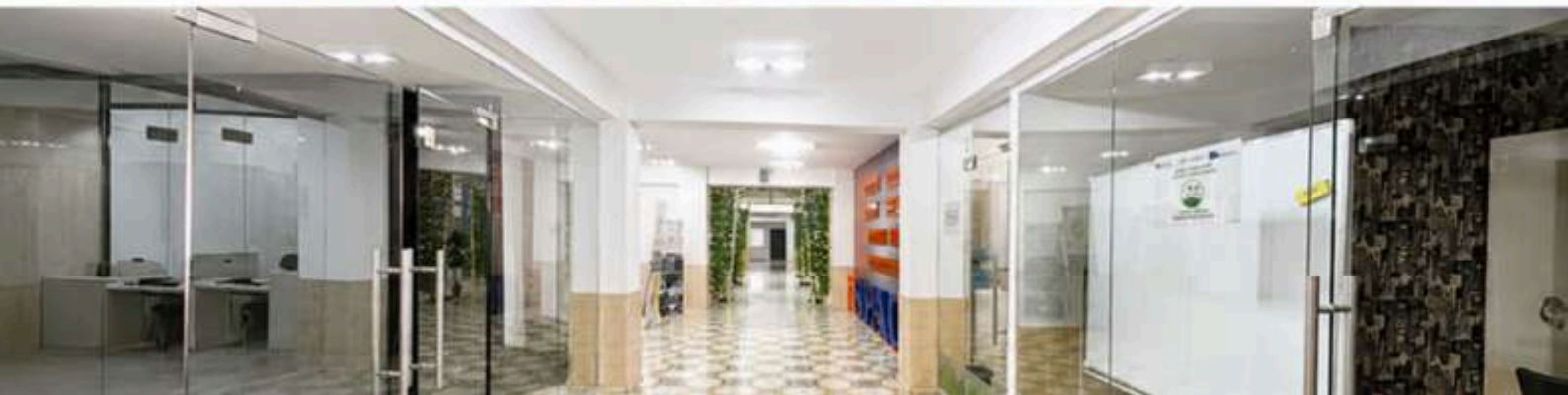
Sustainable university environment



Atyrau University named after H. Dosmukhamedova supports the principles of sustainable development through the implementation of environmental and energy initiatives on campus. One example is the use of solar panels and alternative energy elements that promote the popularization of renewable energy sources and the formation of a culture of responsible energy consumption among students and staff. An additional confirmation of the university's commitment to the principles of sustainable development is its participation in the UI GreenMetric international rating, which evaluates the environmental infrastructure, energy efficiency and environmental policy of universities.



Sustainable energy infrastructure of the campus



The University is actively implementing energy-efficient technologies and equipment to reduce electricity consumption and improve energy efficiency throughout the campus.

LED lighting systems are installed in all academic buildings and administrative offices. Currently, the university operates 2,825 energy-efficient devices, which is 61.8% of the total number of electrical appliances on campus.

To further reduce energy consumption, lamps equipped with motion sensors were installed in individual rooms, which allows you to automatically adjust the lighting depending on the workload.

In addition, the university encourages the use of renewable energy technologies. There are two solar-powered charging gazebos on the campus, which provide students and staff with environmentally friendly means of charging mobile devices. These measures contribute to reducing energy consumption, reducing greenhouse gas emissions, and support the university's commitment to sustainable campus management and environmental responsibility.

FUTURE STEPS TOWARDS ACHIEVING SDG 7

Atyrau University named after H. Dosmukhamedova will continue to develop research and educational initiatives in the field of renewable energy, energy efficiency and environmentally sustainable technologies.

Among the priority areas of development:




- expansion of research in the field of solar and wind energy;
- support for student environmental and energy startups;
- development of international cooperation in the field of sustainable energy;
- implementation of modern energy saving technologies and environmentally friendly solutions;
- improving students' environmental literacy in matters of clean energy and rational use of resources;
- strengthening the university's position in international sustainable development rankings.

The implementation of these areas will allow the university to strengthen its contribution to the development of the green economy, the training of future specialists and the achievement of the UN Sustainable Development Goal No. 7 "Affordable and clean energy".

Экокампус — экологиялық
таза және тұрақты даму
қағидаттарына негізделген
университеттік
инфрақұрылым мен ортаны
құру



Мақсаты:

-  Экологиялық мәдениетті қалыптастыру
-  Қалдықтарды сұрыптау және қайта өңдеу
-  Университеттің қоршаған ортаға деген жауапкершілігін арттыру





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 8 "Decent work and economic growth" through the development of entrepreneurship, support for innovation, practice-oriented education and promotion of employment of graduates. The University promotes the formation of professional competencies that are in demand in the modern labor market, and also supports the development of human capital and the regional economy.



Entrepreneurship and innovation

Since 2020, the university has been holding an annual startup project competition among students and young professionals. During this period, dozens of initiatives in the fields of education, ecology, digital technologies and social innovations have been supported.

In 2026, the projects "Zhasyl Campus", "PhD Mentor", "Psy Connect Junior & Family", "Maad Study", "Kerek App" and other initiatives aimed at developing an innovative ecosystem and entrepreneurial activity of young people received financial support.

Additional attention is paid to the development of entrepreneurial skills within the framework of the Silver University project, where courses on the basics of entrepreneurship and financial literacy are being implemented.





Employment and cooperation with employers



The University actively cooperates with government organizations, businesses and industry partners. An important tool for promoting employment is the annual Young Specialist job fair, which is attended by more than 120 employers in the region.

Within the framework of the fair, graduates get the opportunity to communicate directly with employers, get acquainted with vacancies, internship programs and professional development prospects.

The development of the entrepreneurial ecosystem is facilitated by cooperation with the Damu Entrepreneurship Development Fund, as well as the signing of a memorandum with the Business with Meaning PR agency, which provides for the organization of internships, joint projects and employment support for graduates.



Professional orientation of youth

The University is actively involved in career guidance work. Within the framework of the project "Future Market – A platform for professions of the future", schoolchildren get acquainted with sought-after professions, new specialties and labor market trends, which contributes to an informed choice of a future profession.

Labor market research and forecasting

A significant contribution to the achievement of SDG 8 is made by the BR21882382 project "Development of atlases of new professions and competencies in the regions of Kazakhstan based on the Skills Technology Foresight method".

The project aims to identify the staffing needs of the regions, identify new professions of the future and train specialists in accordance with the requirements of the modern economy and **the** labor market.

FUTURE STEPS TOWARDS ACHIEVING SDG 8

Atyrau University named after H. Dosmukhamedova will continue to develop educational, scientific and entrepreneurial initiatives aimed at increasing youth employment, developing human capital and supporting sustainable economic growth in the region.

Among the priority areas of development

- are the expansion of dual education programs and practice-oriented training of specialists;
- strengthening cooperation with employers, the business community and government organizations;
- development of the university startup ecosystem and increased support for student innovation projects;
- expansion of entrepreneurial education and financial literacy programs for various age groups of the population;
- improving mechanisms to promote the employment of graduates and monitor their career development;
- development of microqualification programs and additional professional competencies in accordance with the needs of the labor market;
- support scientific research related to forecasting the personnel needs and professions of the future.

The implementation of these areas will allow the university to strengthen its contribution to the development of entrepreneurship, increase youth employment, train competitive specialists and achieve the UN Sustainable Development Goal No. 8 "Decent work and economic growth".





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Қазақстан Республикасы Ғылым және жоғары білім министрлігі
«Х.Досмұхамедов атындағы Атырау университеті» КеАҚ



**AI HACKATHON
2026**

Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 9 "Industrialization, innovation and infrastructure" through the development of scientific research, digital technologies, innovation and the training of specialists for high-tech sectors of the economy. The University promotes the development of digital transformation, supports research initiatives and strengthens cooperation with government and industry organizations.



Infrastructure development and innovation environment



Atyrau University is consistently developing a modern research infrastructure, creating conditions for conducting applied research and training highly qualified personnel.

An important step was the opening of the Robotics and mechatronics laboratory, created on the initiative of the Caspian Center for Sustainable Innovation. The laboratory is equipped with modern equipment and is designed to carry out research and development work in the field of robotics, automation and mechatronic systems.

The PCF BR28713197 program implements research aimed at developing innovative solutions to increase productivity, efficiency and safety of production processes. The new infrastructure provides students and researchers with opportunities to conduct applied research and develop technological solutions for the industrial sector.



Scientific research and innovation

The University's research activities cover a wide range of areas related to innovation, digital transformation, industry, and sustainable infrastructure.

Among the ongoing projects:

- AP22685531 "Research of integrable models with self-consistent potential";
- AP19679897 "Development of an intelligent decision support system for managing the production process of petroleum coke";
- AP26100713 "Fundamental principles of creating durable asphalt concrete pavements using secondary polymers and lignin";
- AP19174589 "The effect of defects on the atomic and electronic properties of platinum-based transition metal dichalcogenides".

Scientific publications and applied research on the digital economy, intelligent control systems, electric transport infrastructure, innovative development of transport and logistics systems, digital transformation of the agro-industrial complex and the development of innovative infrastructure in Kazakhstan also make a significant contribution to the development of innovation.

An additional result of scientific activity was the patent "Method for obtaining sodium formate in an alkaline environment".

Within the framework of the Science Week, a scientific seminar "Research and innovations in the field of composite materials based on polypropylene" was held, dedicated to modern research on polymer materials, STEM approaches and digital modeling.





Artificial intelligence and digital transformation



One of the priorities of the university's development is the introduction of artificial intelligence technologies and digital solutions.

In 2026, the university became the venue for the regional AI Hackathon 2026, which brought together schoolchildren, college students and universities in the region. The participants developed solutions in the field of artificial intelligence, web development, mobile technologies and cybersecurity.

The university's team achieved high results at the AI in Healthcare international hackathon as part of the CAU Tech Summit 2026. The team was among the strongest participants in the international finals, taking 18th place among the 54 best teams selected from more than 300 teams from 17 countries.

The university's teachers and students also participated in the Digital Qazaqstan 2026 international forum dedicated to digital transformation, innovation, artificial intelligence and technological entrepreneurship.



Partnership with the industry

The University is actively developing cooperation with government and industry organizations to integrate education, science and production.

An important step was the signing of a memorandum with the National Center for Geodesy and Spatial Information under the Ministry of Digital Development of the Republic of Kazakhstan. The agreement provides for the improvement of educational programs, the organization of industrial practice, the introduction of elements of dual education and the implementation of joint research projects. This cooperation contributes to the training of in-demand specialists and the development of modern educational infrastructure.





Personnel training for the economy of the future

The University pays special attention to the development of digital competencies, engineering skills and innovative thinking of students. An important area is the professional development of teachers and specialists in the field of digital educational technologies. As part of the Upgrade program, the course "Gamification in elementary school lessons in a digital educational environment" was implemented, aimed at developing digital literacy and mastering modern educational tools. Hackathons, scientific projects, research seminars and forums allow students to master modern technologies and participate in solving current technological problems.



FUTURE STEPS TOWARDS ACHIEVING SDG 9

Atyrau University named after H. Dosmukhamedova will continue to develop scientific and innovative activities, digital infrastructure and partnership with the industry to train specialists who are able to work effectively in the context of technological transformation of the economy.

The priority areas for further development are:

- expansion of research in the field of artificial intelligence, digital technologies, robotics and mechatronics;
- development of the University's research infrastructure and laboratory facilities;
- support for student startups, hackathons, and innovative projects;
- strengthening cooperation with government agencies, IT companies and industrial enterprises;
- expansion of dual training and industrial practice programs;
- development of international scientific cooperation and participation in international technological forums;
- implementation of modern digital solutions in the educational process and scientific activity.

The implementation of these areas will allow the university to strengthen its contribution to the development of innovative infrastructure, the digital economy and the achievement of the UN Sustainable Development Goal No. 9 "Industrialization, Innovation and infrastructure".





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Development of Inclusive Education

Khalel Dosmukhamedov Atyrau University places special emphasis on the development of inclusive education and the creation of equal opportunities for students with special educational needs.

In 2025, the University signed a Memorandum of Cooperation with the Inclusion Bolashak Atyrau Public Association and the Zeyin-Atyrau Development Center for Children with Special Needs. The agreement provides for the training of specialists in inclusive education, the organization of students' academic and professional internships, the implementation of joint research projects, and the exchange of professional experience.

This partnership contributes to the development of an inclusive educational environment and supports children with special educational needs by promoting equal access to quality education.

International Cooperation in Inclusive Education

As part of the University's Science Decade, Khalel Dosmukhamedov Atyrau University hosted the international scientific and practical conference "Inclusive Education and Society: Methodology, Research, and Practice."

The conference brought together scholars from Kazakhstan, Canada, the United States, and Türkiye, as well as representatives of educational authorities, faculty members, and university students.

Participants discussed contemporary international approaches to inclusive education, shared best practices, and presented the results of collaborative research aimed at ensuring equal access to quality education.

As an additional contribution to international cooperation, an invited lecture was delivered by Associate Professor Zarafshan Kalandarova of Kokand State University (Uzbekistan) within the framework of the ORHUN academic mobility program. The lecture focused on modern approaches to inclusive education and international experience in teacher training.





Enhancing Professional Competencies in Inclusive Education



The University systematically provides professional development opportunities for its academic staff in the field of inclusive education.

In 2026, a 72-hour professional development course entitled “Methods of Psychological and Pedagogical Support for Children with Special Educational Needs in Inclusive Education” was organized.

Participants studied modern models of inclusive education, national policies and international standards, and acquired practical approaches to supporting learners with visual, hearing, speech, and physical impairments, as well as those with developmental delays. The knowledge and skills gained through the course contribute to the creation of an accessible and inclusive learning environment and improve the quality of education for students with special educational needs.



Social Integration of People with Disabilities

One of the University's significant research initiatives is the project “The Economic Impact of Integrating People with Disabilities into the Labor Market,” carried out by the Department of Economics.

The project examines the social and economic impacts of integrating people with disabilities into the labor market, explores their professional potential, and promotes the principles of equal opportunities in employment.

The research findings contribute to strengthening social inclusion, improving the effective use of human resources, and enhancing social stability by supporting the integration of people with disabilities into economic and public life.



Equal Access to Higher Education



Khalel Dosmukhamedov Atyrau University, in cooperation with the Kazakhstan Halkyna Public Foundation, implements an educational grant program aimed at supporting young people from socially vulnerable groups.

For the 2025–2026 academic year, the University was awarded 15 educational grants for applicants from low-income families, rural areas, orphaned children, persons with disabilities, young people from families raising children with disabilities, and children affected by the January 2022 events.

The program promotes equal access to higher education, expands educational opportunities for disadvantaged youth, and contributes to reducing social inequality by ensuring that talented students can pursue higher education regardless of their social or economic background.

Key Achievements

During the reporting period, the University:

- expanded cooperation with organizations working in the field of inclusive education;
- organized an international scientific and practical conference on inclusive education;
- implemented professional development programs for academic staff in inclusive education;
- conducted a research project on the integration of people with disabilities into the labor market;
- provided educational grant opportunities for students from socially vulnerable groups through the Kazakhstan Halkyna Public Foundation;
- promoted lifelong learning and expanded access to educational resources for different social and age groups.





Future Steps Towards Achieving SDG 10

Khalel Dosmukhamedov Atyrau University will continue to develop initiatives aimed at reducing inequalities and fostering an inclusive educational environment.

The University's key priorities include:

- expanding cooperation with organizations working in the field of inclusive education;
- strengthening international research projects and academic collaboration;
- enhancing teacher training in inclusive education;
- expanding social support programs for students;
- ensuring equal access to quality education for all members of society;
- further promoting an inclusive culture across the University community.

Through these initiatives, the University seeks to create equal opportunities, strengthen social inclusion, and contribute to the achievement of the United Nations Sustainable Development Goals.





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 11 "Sustainable cities and human settlements" through the development of ecological culture, improvement of public spaces, preservation of historical and cultural heritage and scientific research aimed at sustainable development of territories.





What does this mean for Atyrau University



The University considers the sustainable development of cities and towns as a combination of environmental responsibility, preservation of historical memory and the formation of a comfortable social environment. Special attention is paid to the development of environmental awareness among young people, the preservation of cultural heritage and the support of initiatives that contribute to the sustainable development of the region.



Research on sustainable development of territories

The scientific activity of the university covers the issues of sustainable development of cities, natural territories and infrastructure.

Among scientific research:

An evaluation for sustainable urban planning of Qonayev City in Kazakhstan through residents' perception, dedicated to issues of sustainable urban planning;

Hydrochemical Analysis of Salt Lakes in the Caspian Lowland of the Mangistau Region of the Republic of Kazakhstan, aimed at studying the ecological state of natural water bodies;

Analysis of energy supply in the housing sector of the Republic of Kazakhstan, dedicated to issues of sustainable infrastructure and energy efficiency.

The results of these studies contribute to the development of scientific approaches to the formation of sustainable urban and regional systems.





Preservation of cultural and historical heritage



One of the important activities of the university is the preservation and popularization of the historical and cultural heritage of Kazakhstan.

Atyrau University scientists took part in the international symposium "The Golden Horde – an example of steppe civilization", dedicated to issues of history, culture and national identity. Within the framework of the event, research aimed at preserving historical memory and popularizing the heritage of the steppe civilization was presented.

The university makes a significant contribution to the study and preservation of the medieval settlement of Saraishyk. Representatives of the university participated in scientific research, archaeological work and events to promote the heritage of Saraishyk. Special attention is paid to the digitalization of historical sites, the introduction of QR codes for museum exhibits and the preservation of the archaeological heritage of the region.

An additional contribution to the preservation of historical memory was the presentation of scientific works on the military history of Western Kazakhstan and the implementation of the Saraishyk – Ancestral Heritage project, aimed at popularizing historical heritage through art and education.



Preservation of cultural and historical heritage





National culture and social identity

The University actively supports projects to preserve national culture and traditions.

As part of the National Dress Day, students and teachers took part in a large-scale march aimed at popularizing the cultural heritage of the Kazakh people.

The role of traditional games in educating young people and preserving national identity was discussed in the Science Café format. The participants considered the importance of national games in the development of cultural awareness and the formation of social values.

A round table "Kumarshyk – the source of life" was also organized, dedicated to the historical significance of kumarshyk and its role in the life of the Kazakh people during periods of social and economic trials.





FUTURE STEPS TOWARDS ACHIEVING SDG 11

Atyrau University named after H. Dosmukhamedova will continue to implement initiatives aimed at developing a sustainable urban environment, preserving cultural heritage and enhancing the ecological culture of society.

Among the priority areas of development:

- the expansion of environmental initiatives for landscaping and beautification of the university and the city;
- developing the concept of an environmentally sustainable campus;
- support of scientific research in the field of sustainable development of territories and urban infrastructure;
- further participation in projects aimed at preserving and popularizing the historical and cultural heritage of Saraishyk and other monuments of the region;
- the development of digital technologies for the preservation and popularization of cultural heritage sites;
- increasing student participation in volunteer and community initiatives to develop the urban environment;
- strengthening cooperation with museums, historical and cultural organizations and scientific centers of Kazakhstan and abroad.

The implementation of these areas will allow the university to strengthen its contribution to the development of sustainable cities and human settlements, the preservation of cultural heritage and the achievement of the UN Sustainable Development Goal No. 11 "Sustainable cities and human settlements".





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Dosmukhamedov Atyrau University contributes to the achievement of the UN Sustainable Development Goal No. 12 "Responsible consumption and production" through the development of environmental education, the promotion of the principles of circular economy, the introduction of separate waste collection practices and the implementation of scientific research aimed at the rational use of resources and reducing environmental burden.



What does this mean for Atyrau University



The University considers responsible consumption and production as an important element of sustainable development. Special attention is paid to the formation of students' ecological culture, the introduction of modern waste management methods, the development of environmental innovations and the support of research in the field of sustainable environmental management.



Waste management and circular economy

One of the key activities of the university is the formation of a culture of separate waste collection and reuse of resources. Since 2022, the university has been cooperating with the Ecodamu organization, implementing a program for separate waste collection and regular waste paper collection. Thanks to the systematic work on the development of ecological culture among students and staff, the university entered the TOP 5 organizations of Atyrau city for waste paper collection among universities, colleges and schools. As part of environmental initiatives, students actively participate in projects to reduce waste and promote the principles of responsible consumption.







Environmental education and the formation of ecological culture



The University regularly hosts educational events aimed at improving environmental literacy and fostering environmentally responsible behavior.

A guest lecture "Waste and Spill Management" with the participation of West Dala specialists was organized for students of the educational programs "Applied Ecology", "Ecoanalytics" and "Waste Management". The participants got acquainted with modern waste management methods, pollution elimination technologies and practical aspects of environmental safety.

An additional contribution to the development of ecological culture was made by the open lesson "Separate waste collection: implementation practices and results", as well as the training "Environmental Etiquette", dedicated to waste sorting, environmentally responsible lifestyle and sustainable consumption.



Environmental innovations and student projects

A significant contribution to the development of the principles of circular economy is made by the activities of the Ecos environmental circle.

As part of the national campaign "Taza Kazakhstan", innovative environmental projects of students aimed at solving urgent environmental problems of the region were presented.

Among the projects:

- creation of epoxy resin products using glass waste;
- production of sulfur concrete from sulfur waste;
- manufacture of paving stones using cigarette waste;
- development of bioplastics from local raw materials.

These projects demonstrate the practical application of the principles of resource reuse and the development of environmentally sound waste recycling technologies.

An additional event was the defense of projects on the "Waste-free lifestyle", in which students presented solutions based on the 5R principle (Refuse, Reduce, Reuse, Recycle, Rot) and modern approaches to sustainable waste management.





Sustainable production and environmental responsibility



An important area of the university's activity is the study of issues of environmental responsibility of business and sustainable production. A guest lecture by Embamunaigas specialists on the topic "Ecology of production" was organized for the students. The Carbon footprint of Production", which examined modern approaches to reducing the environmental impact of production processes, emission monitoring methods and corporate environmental responsibility programs.

In addition, the Department of Economics has implemented a scientific project "Introduction of a rotary grazing system in the Zhylyoy district of Atyrau region", aimed at sustainable use of land resources and ensuring food security in the region.



Research and innovation

University scientists are implementing research aimed at improving resource efficiency, recycling materials and developing environmentally sustainable technologies.

Scientific developments and publications include:

- AP19679897 "Development of an intelligent decision support system for managing the production of petroleum coke";
- Recycling of Polypropylene with Vitamin E Additives: Rheological Properties and Mechanical Characteristics;
- Environmental-Economic Instruments of Environmental Policy;
- Analytical review of the marketing research of consumer demand for organic vegetables in Atyrau region;
- Analysis of energy supply in the housing sector of the Republic of Kazakhstan;
- development of an environmentally safe deicing drug.

The results of these studies contribute to the development of environmentally sustainable production, rational use of resources and the introduction of the principles of circular economy.



KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 13 "Combating climate change" through environmental education, scientific research, the development of ecological culture, participation in greening initiatives and support for activities aimed at adapting to climate change and reducing environmental risks.



Environmental initiatives and landscaping



An important area of the university's activity is the implementation of environmental initiatives aimed at reducing the negative impact on the environment and improving the environmental situation in the region. As part of the republican campaign "Taza Kazakhstan", 35 fruit trees were planted on the territory of the university. The event was attended by the university's management, teachers and students.

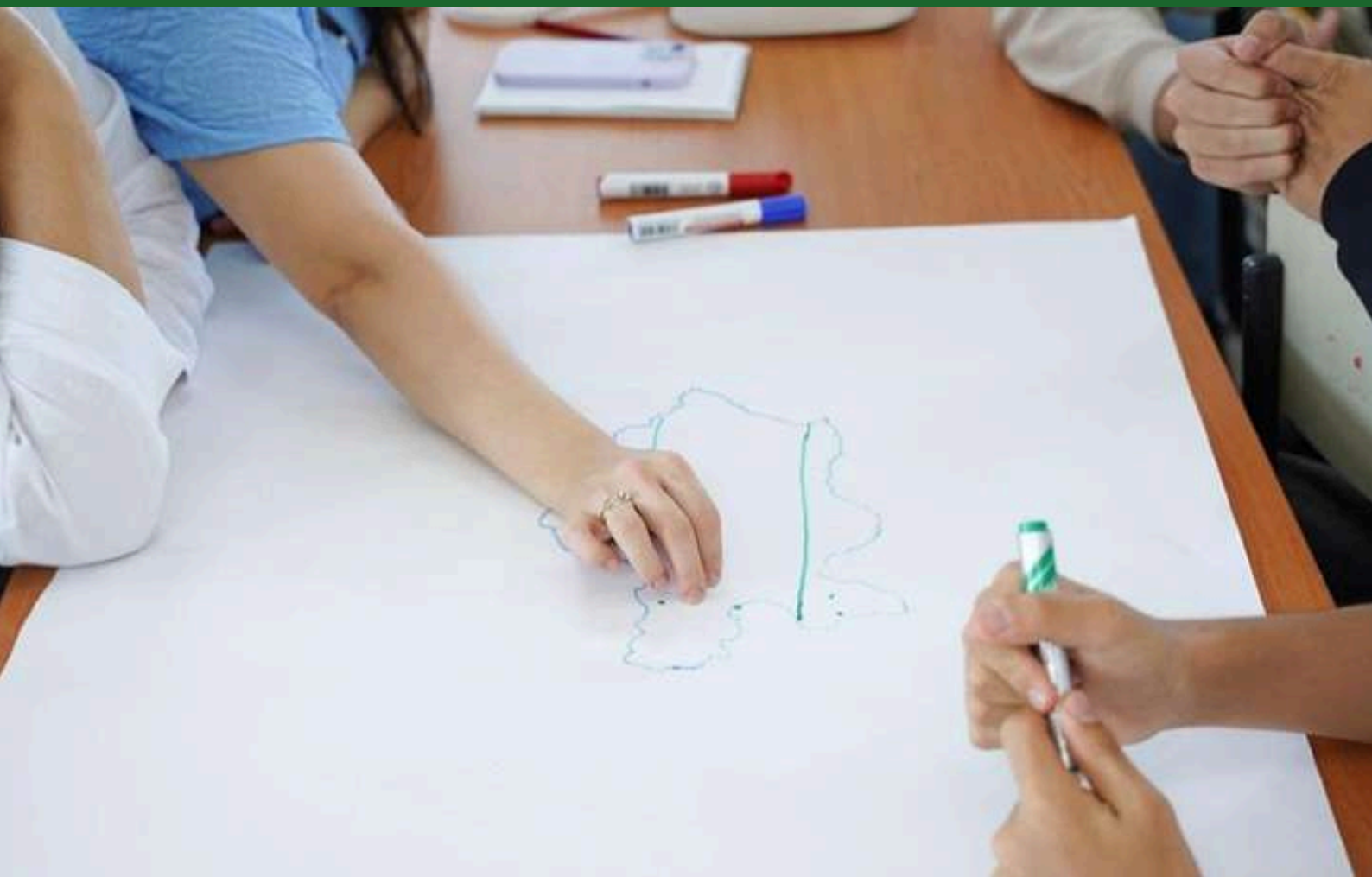
An additional contribution to the development of ecological culture was made by the regional forum "Taza Kazakhstan – as a basis for environmental safety and sustainable development", which brought together schoolchildren, students and teachers to discuss climate change, rational use of natural resources, waste management and the introduction of green technologies.

Climate education and enlightenment

The University is actively developing educational initiatives aimed at raising youth awareness of climate challenges.

The University hosted the First Youth Climate Dialogue "Atyrau Youth: Climate Change and Ways of Adaptation" (Climate Talks). During the event, participants discussed the effects of climate change, adaptation to new environmental conditions, and the role of youth in achieving sustainable development goals.

A guest lecture "Waste and Emissions Management", conducted by West Dala specialists, was also organized for students of the educational programs "Applied Ecology", "Ecoanalytics" and "Waste Management". The participants got acquainted with modern approaches to minimizing the negative impact of production activities on the environment and technologies for eliminating pollution.



Climate change research and adaptation



The university's scientific activities are aimed at studying environmental processes and finding solutions to increase the region's resilience to climate change.

Among scientific research and publications:

- Analysis of the Content of Hydrogen Sulfide in the Air of the City of Atyrau;
- Organization of innovative approaches to the introduction of water wells for rural water supply;
- Environmental-Economic Instruments of Environmental Policy;
- The role of international cooperation on environmental issues.

Considerable attention is paid to the conservation of aquatic ecosystems. Within the framework of the regional panel discussion "Joint actions, impact, experience", research was presented on the issues of reproduction of fish resources and ecosystem sustainability of the Ural-Caspian basin in the context of climate change.

Youth participation and community initiatives

The University actively engages students in public initiatives aimed at adapting to climate challenges and increasing the resilience of local communities.

During the spring floods, students and university staff took an active part in measures to protect settlements from flooding. About 50 university volunteers participated in the construction of protective structures in the settlements of Yerkindala and Kyzyl Balyk.

The work on the construction of a protective dam in the village of Almaly became especially large-scale, where 1,800 volunteer students and 200 university staff were involved on behalf of the operational headquarters of Atyrau region. During the work, about 20,000 sandbags were prepared, which were used to strengthen the 5-kilometer-long dam.

This activity has become an example of civic responsibility, social solidarity and youth participation in overcoming the consequences of extreme natural phenomena.





FUTURE STEPS TOWARDS ACHIEVING SDG 13

Atyrau University named after H. Dosmukhamedova will continue to implement initiatives aimed at increasing resilience to climate change, developing ecological culture and supporting scientific research in the field of environmental protection.

Among the priority areas of development:

- Expansion of climate and environmental education programs for students and youth;
- Development of scientific research on air quality, water resources and adaptation to climate change;
- an increase in the number of environmental actions aimed at greening the university and the city;
- Support for youth climate initiatives and volunteer projects;
- Strengthening cooperation with government agencies, scientific organizations and environmental companies;
- Development of international cooperation in the field of climate change and sustainable development;
- Improving youth's preparedness to respond to natural and climate risks;
- Implementation of the principles of sustainable environmental management and environmental responsibility in the educational process.

The implementation of these areas will allow the university to strengthen its contribution to achieving the UN Sustainable Development Goal No. 13 "Combating climate change" and contribute to shaping a sustainable future for the region.



KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Dosmukhamedov Atyrau University contributes to the achievement of the UN Sustainable Development Goal No. 14 "Conservation of marine ecosystems" through the development of scientific research, training of specialists in the field of marine ecology and fisheries, participation in international cooperation on the Caspian Sea and the implementation of initiatives aimed at the conservation of biodiversity and sustainable use of water resources.



What does this mean for Atyrau University

Located in the Caspian region, the University considers the conservation of the ecosystems of the Caspian Sea and the Ural-Caspian basin as one of the key areas of its educational and scientific activities. Special attention is paid to the issues of biodiversity conservation, sustainable fisheries, aquaculture development and ecological monitoring of aquatic ecosystems.



Conservation of biodiversity and natural ecosystems



The University's students and faculty are actively involved in environmental initiatives aimed at preserving the region's ecosystems. As part of the republican campaign "Taza Kazakhstan", students of the educational program "Applied Ecology" took part in planting trees on the territory of the State Natural Reserve "Akzhayk". The event contributed to the formation of an ecological culture, the conservation of natural resources and the development of practical skills in the field of environmental protection.

Additional attention was paid to the issues of biodiversity within the framework of the round table "Environmental issues of shallowing and pollution of the Ural River bottom and ways to preserve biodiversity", which brought together representatives of environmental organizations, scientific institutions and environmental services of the region.

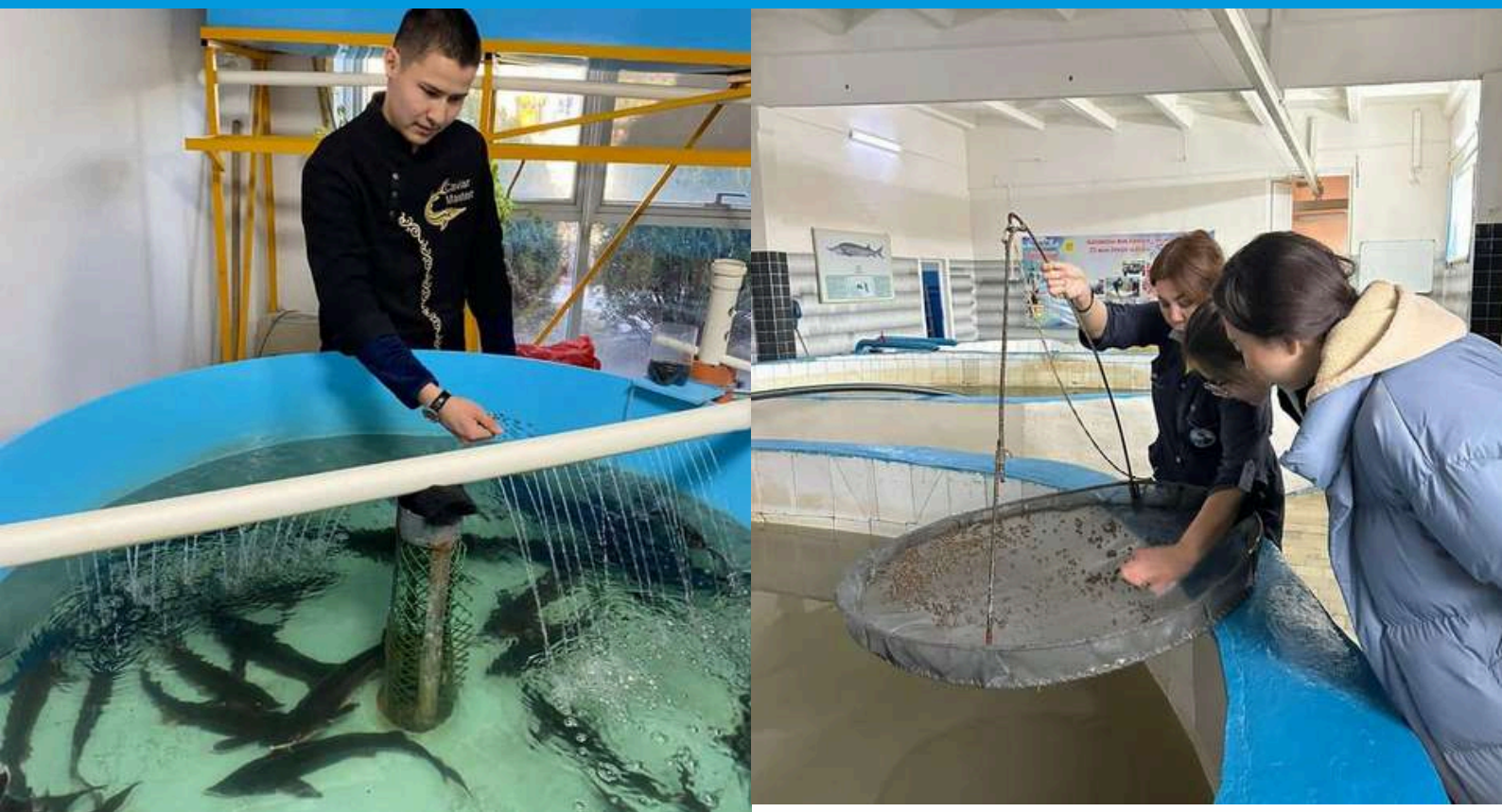
Sustainable development of aquaculture and fisheries

The University implements the educational program 6B08401 "Fisheries and ichthyology", aimed at training specialists for the fisheries industry of Kazakhstan. In 2025, the educational program took the 2nd place in the rating of the National Chamber of Entrepreneurs "Atameken". To organize practical training, the university cooperates with the Zhaiyk-Caspian Inter-regional Basin Fisheries Inspectorate and the Atyrau Sturgeon Fish Hatchery.

Students participate in research, study technologies for artificial fish farming and the release of fry into natural reservoirs, and gain practical experience in the industry.

The department is implementing a scientific project "Development of technology for obtaining valuable components from plant and animal raw materials using biotechnological methods", aimed at creating environmentally friendly feed for aquaculture and developing fish farming technologies in closed-circuit water supply installations.

An additional contribution to the development of the industry was the round table "Digitalization as a mechanism for the development of fisheries", dedicated to the introduction of modern technologies in fish farming.



Scientific research and environmental monitoring



The University conducts research aimed at the conservation of marine and river ecosystems, as well as the sustainable management of aquatic biological resources.

As part of the regional panel discussion "Joint actions, impact, experience", the head of the Laboratory of Integrated Research and Monitoring of the Caspian Environment, G.G. Zhumatova, presented the report "Actual problems of fish reproduction and development in the Ural-Caspian reservoirs", dedicated to the conservation of fish resources and sustainable use of aquatic ecosystems.

In 2025, the university also organized a scientific round table "Sustainable development of Kazakhstan: modernization of infrastructure and protection of the Caspian Sea", which discussed issues of changing the level of the Caspian Sea, conservation of biodiversity and environmental safety of the region.

International cooperation for the preservation of the Caspian Sea

International cooperation plays an important role in the implementation of SDG 14.

The University hosted the XXVII General Assembly of the Association of Universities and Research Centers of the Caspian Littoral States, which was held under the theme "The Caspian Ecosystem: Integration of Science and Education."

The participants discussed issues of preserving the ecosystems of the Caspian Sea, training specialists in the field of marine ecology, aquaculture and marine energy, as well as expanding international scientific research.

Special attention was paid to the development of joint educational programs, research grants and the creation of a network of universities in the Caspian region.





Environmental responsibility and sustainable environmental management

Meetings with representatives of industry and environmental organizations are an important element of the training of future specialists.

A guest lecture by a Tengizchevroil specialist on industrial ecology, rational use of natural resources and the introduction of environmentally sound technologies in the oil and gas industry was held for students of the Applied Ecology program.

Such events allow students to gain practical knowledge in the field of sustainable environmental management and environmental management.



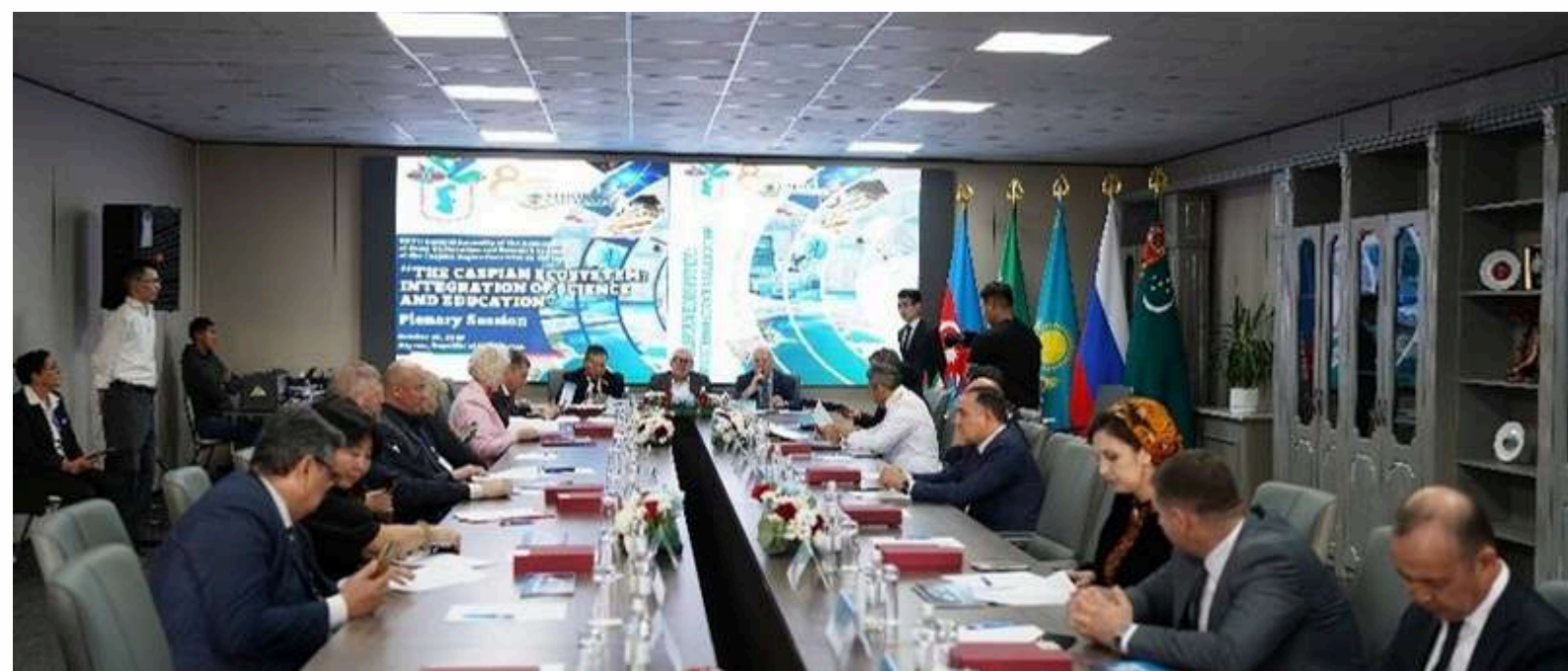
FUTURE STEPS TOWARDS ACHIEVING SDG 14

Atyrau University named after H. Dosmukhamedova will continue to develop educational, scientific and international initiatives aimed at the conservation of marine ecosystems and the sustainable use of aquatic biological resources.

Among the priority areas of development:

- expansion of research on the conservation of biodiversity of the Caspian Sea and the Ural-Caspian basin;
- development of educational programs in the field of marine ecology, fisheries and aquaculture;
- support for scientific projects on the reproduction of fish resources and the development of sustainable aquaculture;
- expansion of international cooperation with universities and research centers of the Caspian region;
- introduction of digital technologies and monitoring systems for aquatic ecosystems;
- development of practice-oriented training of students on the basis of environmental protection and fisheries management organizations;
- improving the environmental literacy of young people in matters of marine ecosystem conservation.

The implementation of these directions will allow the University to strengthen its contribution to the conservation of the biodiversity of the Caspian Sea, sustainable management of water resources and the achievement of the UN Sustainable Development Goal No. 14 "Conservation of marine ecosystems".



KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Atyrau University named after H. Dosmukhamedova contributes to the achievement of the UN Sustainable Development Goal No. 15 "Conservation of terrestrial ecosystems" through scientific research, participation in environmental initiatives, the development of ecological culture and the implementation of projects aimed at preserving biodiversity, restoring degraded lands and the sustainable use of natural resources.

What does this mean for Atyrau University

The University considers the conservation of natural ecosystems as an important direction for the sustainable development of the region. Special attention is paid to the issues of biodiversity protection, restoration of degraded territories, sustainable management of pasture resources and the formation of environmental responsibility among students and society.

Conservation of biodiversity and natural ecosystems

One of the directions of the university's scientific activity is the study and preservation of the plant diversity of the region.

Atyrau University hosted a scientific round table "Scientific foundations and practical significance of rhubarb seed stratification", dedicated to the conservation and reproduction of plants in arid and saline ecosystems. During the event, modern methods of increasing seed germination, the results of scientific monitoring and issues of preserving the region's biodiversity were considered.

Additional attention is paid to nature protection issues through cooperation with the Akzhayik State Nature Reserve, aimed at preserving natural ecosystems and environmental education of young people.



Greening and ecosystem restoration



The University actively participates in landscaping and restoration of the natural environment.

As part of the republican campaign "Taza Kazakhstan", students of the educational program "Applied Ecology" took part in planting trees in the territory of the Akzhayk nature Reserve, as well as in environmental actions to green public spaces, including planting trees in a family park.

Students and teachers of the university also participated in environmental clean-up activities and actions to clean the banks of the Zhaiyk River, contributing to the preservation of the natural environment and the development of the ecological culture of the region.

Environmental initiatives and youth participation

Student environmental initiatives are actively developing at the university.

In 2025, the Eco-Alem Environmental Club was established, bringing together students, teachers and environmental activists to implement environmental projects and form an ecological culture. As part of the club's activities, innovative environmental projects were presented, including Phytotheri, based on the processing of reeds and food waste, as well as projects for the reuse of glass waste.

An additional contribution to the development of the environmental movement is made by the GreenWay eco-club, whose members organize environmental actions, tree planting, plastic recycling projects and environmental trainings.





Sustainable use of land resources



The Department of Economics implements research projects aimed at the rational use of natural resources and the preservation of regional ecosystems.

Among the supported projects:

- "Implementation of a rotary grazing system in the Zhylyoy district of Atyrau region";
- "Technology for the production of environmentally friendly mutton and lamb in the conditions of the Atyrau region desert zone."

The implementation of these projects contributes to reducing land degradation, increasing the efficiency of using pasture resources and developing environmentally sound agriculture.

Scientific research and restoration of pasture ecosystems

University scientists are conducting research aimed at restoring degraded lands and increasing the sustainability of ecosystems in arid regions.

Special attention is paid to the creation of irrigated pastures in the Caspian semi-desert regions, the study of fodder crops adapted to saline soils, as well as the assessment of their ecological and economic efficiency.

The research examines the adaptation features of *Kochia prostrata* and *Camphorosma monspeliaca* plants, and develops recommendations for restoring the biodiversity of degraded pastures and their sustainable use.





FUTURE STEPS TOWARDS ACHIEVING SDG 15

Atyrau University named after H. Dosmukhamedova will continue to implement initiatives aimed at preserving biodiversity, restoring degraded lands and increasing the environmental sustainability of the region.

Among the priority areas of development:

- expansion of scientific research on the conservation of biodiversity and restoration of natural ecosystems;
- development of landscaping projects and improvement of environmental sustainability of the region;
- support for environmental clubs and youth environmental initiatives;
- expansion of cooperation with environmental organizations and state natural reserves;
- implementation of innovative environmental solutions for the restoration of degraded lands;
- development of scientific projects on sustainable use of pasture resources and prevention of soil degradation;
- improving the environmental literacy of young people and involving students in practical environmental protection activities.

The implementation of these areas will allow the university to strengthen its contribution to the conservation of terrestrial ecosystems, the protection of biodiversity and the achievement of the UN Sustainable Development Goal No. 15 "Conservation of terrestrial ecosystems".

KH ALEL DOSMUKH AMEDOV ATYRAU UNIVERSITY





“Peace, justice, and effective, accountable and inclusive institutions at all levels are the foundation of sustainable development.”

Sustainable Development Goal 16 (SDG 16) aims to build peaceful and just societies, ensure access to justice for all, and develop effective, accountable, and inclusive institutions. Universities play a significant role in achieving this goal, as they foster legal awareness, civic responsibility, academic integrity, and active youth participation in public life.

Khalel Dosmukhamedov Atyrau University considers the implementation of SDG 16 to be one of the priority areas of its educational, research, and social activities. The University systematically develops cooperation with government agencies, law enforcement bodies, public organizations, and civil society institutions, creating conditions for enhancing legal literacy, strengthening the rule of law, and fostering a safe educational environment.

Legal Education and Enhancement of Legal Literacy

One of the key areas of SDG 16 implementation is the systematic effort to improve the legal literacy of students and the wider community.

The University regularly organizes open lectures, roundtable discussions, seminars, intellectual competitions, and educational meetings focused on the legislation of the Republic of Kazakhstan.

Among the most significant events are:

- An open meeting with Abzal Kuspan, Member of the Mazhilis of the Parliament of the Republic of Kazakhstan, dedicated to explaining new amendments to the Criminal Code;
- The forum “Law and Order – A Safe Future”, attended by more than 2,000 students;
- The opening of the Young Voters’ Classroom aimed at developing the electoral culture of young people;
- The gala concert “The New Constitution – A Bright Future”;
- A series of events dedicated to explaining the provisions of the Constitution of the Republic of Kazakhstan;
- The seminar “Legal Literacy” organized within the framework of the Silver University project for senior citizens;
- The roundtable discussion “Legal Culture as the Foundation of Harmony and Stability.”

These activities contribute to the development of legal awareness among young people and promote respect for the rule of law and public institutions.



Crime Prevention and Public Safety



Crime Prevention and Public Safety

Within the framework of the “Law and Order” principle, the University implements a comprehensive set of measures aimed at preventing offenses among young people.

The main areas of activity include:

- Prevention of online fraud;
- Prevention of cybercrime;
- Prevention of drug-related crimes;
- Combating domestic and family violence;
- Prevention of youth delinquency and crime;
- Prevention of terrorism and extremism.

The following events and meetings were organized:

- “Beware of Internet Fraud” awareness campaign;
- “Law and Order” meetings with representatives of the Department of Police;
- Crime prevention activities for law students;
- Awareness sessions on safety and security in the context of terrorist threats.

Human Rights Protection and Violence Prevention

Special attention is given to the protection of the rights of women, families, and vulnerable groups of the population.

The following events were organized:

- “Women's Rights as the Foundation of Social Stability”;
- “Say No to Violence!”;
- “Legal Education within the Family.”

During these meetings, participants discussed recent legislative amendments concerning:

- stalking;
- forced marriage;
- domestic and family violence;
- protection of victims' rights.

The events brought together police officers, representatives of crisis centers, lawyers, and faculty members specializing in legal disciplines. These activities contribute to strengthening a culture of respect for human rights and preventing discrimination and violence.



Cooperation with Government and Law Enforcement Institutions



To strengthen effective institutions, the University actively cooperates with government agencies and law enforcement bodies.

Memorandums of cooperation have been signed with:

- The Department of Justice of the Atyrau Region;
- The Department of the Committee on Legal Statistics and Special Records of the Prosecutor General's Office of the Republic of Kazakhstan.

The partnership provides for:

- organizing joint events and initiatives;
- arranging internships and practical training for students;
- conducting joint research projects;
- enhancing the activities of the Legal Clinic;
- providing legal consultations and assistance to the public.

The University also actively collaborates with the prosecutor's office, the legal profession, the notarial community, electoral commissions, and regional law enforcement agencies.

These partnerships contribute to strengthening institutional capacity, promoting the rule of law, and expanding access to legal services and justice.

Legal Clinic and Access to Justice

An important contribution of the University to the implementation of SDG 16 is the work of the Legal Clinic.

Under the supervision of faculty members and practicing legal professionals, students provide free legal assistance to members of the public.

The public consultations involve:

- prosecutors;
- police officers;
- representatives of justice authorities;
- notaries;
- lawyers;
- enforcement officers (bailiffs).

The activities of the Legal Clinic contribute to expanding citizens' access to legal information and legal services, while also enhancing the practical skills and professional competencies of future legal professionals.



Promoting a Culture of Lawfulness Among Youth



The University actively employs interactive approaches to legal education and awareness-raising.

The following intellectual competitions were organized:

- “FUTURE KZ”;
- “Formula of Crime”;
- “The Mystery of the Process”;
- “Honest Citizen – Healthy Life.”

Participants demonstrate their knowledge of legislation, skills in analyzing legal situations, logical thinking, and the ability to make decisions within the framework of the law.

Such events contribute to the development of legal culture and the professional competencies of future specialists.

Academic Integrity and Institutional Sustainability

The University places special emphasis on fostering a culture of academic integrity.

A significant milestone was the monitoring visit conducted by experts from the Academic Integrity League, during which the University presented the results of its efforts to promote transparency, integrity, and accountability.

Following the visit, a team of Academic Integrity Ambassadors was established, and a set of recommendations was developed to further improve the University's internal policies and practices in the field of academic integrity.





Peace, Security, and Civic Responsibility

The University's contribution to the implementation of SDG 16 is also reflected in activities aimed at promoting a culture of peace and strengthening public security.

These initiatives include:

- the scientific and practical conference “Nuclear Disarmament and the Modern World,” dedicated to Olzhas Suleimenov and the anti-nuclear movement “Nevada–Semey”;
- events focused on preserving historical memory and national heritage;
- military training practice for students of the Military Department;
- projects aimed at fostering civic responsibility and patriotism among young people.

These initiatives contribute to the promotion of the values of peace, non-violence, civic engagement, and international security.



Conclusion

Khalel Dosmukhamedov Atyrau University makes a significant contribution to the achievement of Sustainable Development Goal 16 “Peace, Justice and Strong Institutions.” The University serves as an important educational and public platform for promoting legal literacy, advancing the principles of the rule of law, strengthening public safety, and fostering effective interaction between young people and public institutions.

The consistent implementation of these initiatives contributes to the development of a law-governed state, strengthens public trust in institutions, and fosters responsible citizens who are prepared to contribute to the sustainable development of society.





KHALEL DOSMUKHAMEDOV ATYRAU UNIVERSITY





Partnership with Industry and Employers

Atyrau University actively collaborates with leading companies in the oil and gas, environmental, and industrial sectors.

Key partners include North Caspian Operating Company (NOC), Caspiymunaigaz Research and Design Institute JSC, Silleno LLP, and the National Center for Geodesy and Spatial Information.

As part of these partnerships, the University organizes guest lectures, industrial internships, career guidance activities, industrial safety seminars, and joint educational projects. These initiatives provide students with practical knowledge of modern production processes, environmental protection, occupational safety, and the professional requirements of the industry.



Cooperation with Governmental and Public Organizations

The University implements joint initiatives in cooperation with government agencies and civil society institutions.

Key partners include:

- The Department of Ecology of the Atyrau Region;
- The Bolashak International Programs Center;
- The Akzhaiyk State Nature Reserve;
- The Aarhus Center;
- The Globus Public Association.

These collaborative initiatives are aimed at promoting environmental awareness, encouraging public service engagement, increasing civic participation among young people, and addressing key environmental challenges facing the region.





Global Cooperation and Academic Exchange



International cooperation is a key priority of Khalel Dosmukhamedov Atyrau University. The University continuously expands its network of international partners, promotes academic mobility, and actively participates in global educational and research initiatives.

During the reporting period, University representatives participated in the IV Eurasian Network University Forum, the ORHUN academic mobility program, and a number of scientific and educational events in Azerbaijan and Türkiye. A significant achievement was the University's participation in the China Study Abroad Forum (CSAF 2026) and the China International Education Exhibition Tour (CIEET 2026) in Beijing. As part of the national Study in Kazakhstan pavilion, the University showcased its educational programs, established new connections with international universities, and explored opportunities for academic mobility, joint degree programs, and collaborative research projects.

Through these initiatives, the University continues to strengthen its international presence, creating new opportunities for knowledge exchange, professional development, and global academic cooperation.



Joint Educational and Research Initiatives

An important area of partnership development is the implementation of joint educational and research projects. The University regularly organizes scientific seminars, roundtable discussions, and expert consultations involving representatives of industry, government agencies, and the academic community. Particular attention is given to sustainable development, ESG principles, the petrochemical industry, environmental monitoring, and the integration of modern technologies into education and research. These initiatives promote knowledge exchange, strengthen cooperation among stakeholders, and enhance the practical relevance of academic activities.





Environmental Partnerships and Sustainable Development



The University actively participates in environmental initiatives and promotes the principles of sustainable development.

In cooperation with environmental organizations and government agencies, the University implements activities aimed at protecting the Caspian Sea, raising environmental awareness, advancing ESG principles, and supporting the achievement of the United Nations Sustainable Development Goals.

A notable event was the seminar on sustainable development and the international UI GreenMetric ranking, which brought together representatives of the University, environmental organizations, and public institutions to discuss sustainability challenges and opportunities.



Human Capital Development and Professional Competencies

Joint projects with employers and international organizations contribute to the development of professional skills among students and young researchers.

Key initiatives include:

- the Bolashak International Scholarship Program;
- international research internships;
- academic mobility programs;
- participation in the Study in Kazakhstan educational exhibition;
- career guidance activities and professional development consultations.

These initiatives expand opportunities for young people to enhance their professional competencies, engage in international cooperation, and successfully integrate into the modern labor market.





Future Steps Towards Achieving SDG 17

Khalel Dosmukhamedov Atyrau University remains committed to strengthening partnerships with educational institutions, government agencies, industry partners, and civil society organizations.

The University's key priorities include:

- expanding international cooperation and academic mobility;
- developing joint research projects and educational programs;
- strengthening collaboration with employers and industry partners;
- implementing environmental and social initiatives;
- creating new opportunities for the professional development of students and young researchers.

The continuous expansion of partnerships will enhance the quality of education, strengthen the University's research potential, and contribute to the achievement of the United Nations Sustainable Development Goals.

