

Turkistan, October 2024

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lInnovation, Threat Management, Expansion



SUSTAINABLE DEVELOPMENT AT KHOJA AKHMET YASSAWI UNIVERSITY

To contribute to the achievement of the UN Sustainable Development Goals, the Scientific Research Center for Sustainable Development was established at the Khoja Akhmet Yassawi International Kazakh-Turkish University in accordance with Decision No. 2.2.1 of the Board of Trustees'

meeting No. 1/1428 in 2021. In 2023, our university achieved the following rankings:

Times Higher Education (THE) Impact Rankings – Ranked 1001+

QS World University Rankings – Ranked 787 QS Asia University Rankings – Ranked 203 QS Asia University Rankings: Central Asia – Ranked 7

USTAINABLE DEVELOPMENT IN KAZAKHSTAN

The UN Sustainable Development Solutions Network (SDSN) was established in 2012 with the support of the UN Secretary-General to advance the Sustainable Development Goals through education, research, policy analysis, and global cooperation. Today, the global SDSN network includes nearly 1,600 member institutions from 137 countries, comprising 1,318 universities and research institutes organized into 47 national and regional networks. On June 8, 2022, the SDSN Kazakhstan national chapter was launched, bringing together 20 organizations.

Efficient use of resources, **Employment**, **Economic development** production in accordance with **Business Ethics**. the principles of Sustainable **Professional Development. Product lifecycl** Enough **Category increase** management Honest world world Sustainable Responsibility development for the environment **Social** A world suitable for living progress Storage of fresh air and **Supervision** water" zero " waste. of human **Environmental justice** rights system protection, Health care, climate change investment of control, biodiversity conservation non-profit organizations

SUSTAINABLE DEVELOPMENT MISSION IN KAZAKHSTAN

According to the United Nations, sustainable development encompasses processes that ensure economic growth without compromising resource use principles, taking into account the rights and interests of both current and future generations.

OUR TEAM



Oshibayeva Ainash Vice-Rector of Science and Strategic Development

Tulkinjon Gaipov

Director of the

Center for

Sustainable

Development and

Scientific Research



Khairulla Masadikov Director of the Department of Science.



Furkat Ubaev Leading Researcher at the Center for Sustainable Development and Scientific Research.



Saltanat Kyrykbaeva

Head of the Center for

Strategic Development,

Ranking, and Quality.

Shahsanam Tashpulat Leading Specialist at the Center for Strategic Development, Ranking, and Quality.

KHOJA AKHMET YASSAWI UNIVERSITY AND SUSTAINABLE DEVELOPMENT

Khoja Akhmet Yassawi International Kazakh-Turkish University employs various methods to achieve the Sustainable Development Goals (SDGs). The following results provide a clear view of our academic achievements and the diverse areas of our activities. The university integrates the UN's recommendations on sustainable development to address the most pressing global challenges and fosters a culture of sustainability within the institution.





ESTABLISHING RELATIONSHIPS BETWEEN THE SUSTAINABLE DEVELOPMENT GOALS (SDG) AND UNALAT THE SUSTAINABLE **DEVELOPMENT SCIENTIFIC RESEARCH CENTER**



SDG

The Sustainable Development Goals (SDGs), adopted by the UN in 2015, unite all countries of the world within a common framework aimed at achieving sustainable development by 2030. These goals are focused on enhancing social, economic, and environmental sustainability worldwide, and they are to be achieved by governments, businesses, universities, nongovernmental organizations, and individuals.

UNAI

According to the decision of the United Nations Department of Global Communications on May 16, 2022, Khoja Akhmet Yassawi International Kazakh-Turkish University was accepted as a full member of the United Nations Academic Impact (UNAI) under the direction of "Sharing the Culture of Intellectual Social Responsibility." As a member of UNAI, our university aims to carry out systematic work based on the following ten core principles and commitments



16 May 2022

KHOJA AKHMET YASSAWI UNIVERSITY'S KEY CONTRIBUTIONS TO ACHIEVING THE SUSTAINABLE DEVELOPMENT GOALS



The key 6 goals of Khoja Akhmet Yassawi International Kazakh-Turkish University in its collaborative academic work, while making a specific contribution to each goal through research and quality education:

1. No Poverty- The Sustainable Development Goals (SDGs) are globally accepted goals aimed at eradicating poverty, fighting inequality and injustice, protecting the planet, and ensuring peace and prosperity for all people.

3. Good Health and Well-being – Ensuring healthy lifestyles and well-being for all at all ages.
4. Quality Education – Providing inclusive and equitable quality education and promoting lifelong learning opportunities for all.

8. Decent Work and Economic Growth – Promoting inclusive, sustainable economic growth, full and productive employment, and decent work for all.

9. Industry, Innovation, and Infrastructure – Building resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation.
 17. Partnerships for the Goals – Strengthening the means of implementation and

revitalizing global partnerships for sustainable development.

Goal 1 - No Poverty

Education: Related Modules – 6

A seminar on the topic "United Nations Sustainable Development Goals: Principles of Fighting Poverty" was held. The seminar was organized by the Department of International Relations of the Faculty of Economics, Management, and Law, in collaboration with the International Relations Club under the "Seminar for Young Diplomats" project. During the event, UN projects on international poverty eradication and measures to combat poverty in our country were presented.



https://old.ayu.edu.kz/archives/94417



In order to no poverty, our university has provided financial support to students (orphans, semi-orphans, and disabled students) by exempting them from dormitory fees. **"Formation and Improvement of the Regional Economic Concept for Eradicating Poverty in the Turkistan Region in the Context of Societal Renewal and Revitalization, 2023-2025"** PhD, Senior Lecturer S. Baymaganbetov Registration card No. 0123PKИ0122 https://ayu.edu.kz/admin/ckeditor_files/fi les/AP19 680610.pdf

Goal 1 - No Poverty



https://old.ayu.edu.kz/archives/8897220

AP19680610 identification of brand management problems in small and medium-sized businesses of the Turkestan region Syzdykova A. 47 950 425 0123RK00691

https://ayu.edu.kz/admin/ckeditor_files/files/AP19680610.p

3. An Iftar Table was set up at Khoja Akhmet Yassawi International Kazakh-Turkish University.

During the holy month of Ramadan, an iftar meal was provided to the university staff and students at the central cafeteria. Following the established tradition, prominent citizens and institutions hosted iftar meals for the public at our university. The Chairman of the Board of Trustees, Professor, Dr. Muhittin Şimşek, was among the first to host an iftar meal for 1,000 people. This charitable initiative was continued by the benevolent Erkan Aydın. Sponsored by the university and the construction company "Rams Qazaqstan," another iftar meal was served to 1,000 people. The sponsors provided iftar meals for a total of 3,000 people over three days, with the charity continuing for a month.

Goal 2 - Zero Hunger

Education: Related Modules – 2 Research: No publications in indexes other thanScopus. SCOPUS Publications (2023) – 1



Our university sent humanitarian aid to Turkey.

Starting from February 8, the collection of humanitarian aid was launched at our university's Cultural Center. With the support of generous individuals, the collection process was active and efficient over the course of 3 days. The donated items included warm clothing, blankets, winter outerwear, hygiene products, baby diapers, and other essential household items.

Goal 3 - Good Health and Well-being

Education:Research:Related modules -59Publications in indexes other than Scopus -8SCOPUS publications - 2023) - 21

<u>1. Our university played a significant role in performing a groundbreaking surgery in Kazakhstan.</u>

The specialists from Khoja Akhmet Yassawi University's Clinical Diagnostic Center and Turkistan City Children's Hospital collaborated to carry out a corrective surgery for a newborn girl with bladder exstrophy, a procedure never before performed in Kazakhstan. The operation, conducted for the first time in the country, was led by Professor Nizamettin Kiliç, a pediatric urologist from Bursa Uludağ University's Faculty of Medicine, who came to Kazakhstan specially for this procedure under the university's "From Motherland to Fatherland – Health Bridge" project. The operation was supported by our university's Professor Yunus Söylüt and experienced pediatrician Vahid Tairov. Over the course of one week, the medical team performed several complex surgeries.



2. Scientific

Project "Determining the Spectrum and Percentage Composition of Metabolites Characteristic of Nephrolithiasis for Early Diagnosis".

https://old.ayu.edu.kz/archives/96148

3. Scientific

Project "Investigating the genetic aspects of nutrition, lifestyle, and the alignment of patients with metabolic syndrome over a 10-year period".

https://ayu.edu.kz/admin/ckeditor_files/files /AP19678584.pdf

Goal 3 - Good Health and Well-being

An international symposium titled "The World is at Your Fingertips" was held at our university's Clinical Diagnostic Center, featuring the I Applied Urology Symposium of Turkistan.

Organized under the "From Motherland to Fatherland – Health Bridge" project, the event saw renowned urologists and professors from Ankara, Baku, Konya, Edirne, and Astana participate online and deliver presentations. The symposium also included regional doctors and students from the Faculty of Medicine.



Goal 4 - Quality Education Education:

Related modules -27 Research:Publications in indexes other than Scopus - 200 SCOPUS publications (2023) - 7



1. As part of the scientific project "Developing the Process of English Language Development for Students in Engineering and Technical Fields Based on STEAM Education" by our university's PhD, Associate Professor Sherzod Ramankulov, a fair was organized at the J. Tashenov №23 IT School-Lyceum.

The goal of the fair was to enhance the opportunities for effectively implementing the integration of education, science, and industry. Additionally, it aimed to introduce school teachers and future physics teachers to the content of an elective course based on advanced teaching practices. The fair also focused on presenting the possibilities of developing and using STEAM resources and virtual laboratories.

https://old.ayu.edu.kz/archives/94424

2. The Products of Our Botanical Garden Were Recognized as the Best.

Recently, the "Best Products of Kazakhstan 2023" regional exhibition took place in Turkistan city. More than 80 producers from various sectors, including food, machinery, chemicals, handicrafts, light industry, and construction, participated in the exhibition. The main goal of the exhibition was to support domestic products, promote local production, and spread the idea of quality among the public. Our university also took part in this event. Products made from the fruits of our botanical garden were showcased at the exhibition. The fruits, carefully cultivated with special care, and the work of our talented chefs were highly praised by the exhibition attendees. As a result, our university's products won the "Best of the 'One Village – One Product' Project Exhibition 2023" award.



Goal 4 - Quality Education



3. A seminar titled "How ICT Tools and Culture Are Reshaping University Teaching and Research" was held at our university, organized by the Department of Pedagogical Foreign Languages at the Faculty of Philology. The seminar was led by Professor Douglas Hartman from Michigan State University, USA.

The event was attended by faculty members, students, and graduate students. The seminar covered current topics such as how technology is transforming teaching and research, and the use of artificial intelligence in language learning. Students actively participated, raising questions and sharing their opinions.

https://old.ayu.edu.kz/archives/91097

4. Our university has won 15 research projects.

With the decision of the National Scientific Council on grant funding for 2023-2025, 15 grant projects from our university were approved. The total funding amounted to over 1 billion tenge, setting a new record. Our qualified faculty members have further increased our university's scientific achievements.

https://ayu.edu.kz/kz/2805/bilimsel-projeler



Goal 5 - Gender Equality

Education: Related Modules – 1

A campaign titled "16 Days of Activism Against Gender-Based Violence" was held.

The event was attended by the Ambassador Extraordinary and Plenipotentiary of the Republic of Lithuania to Kazakhstan, Egidius Navikas, the Head of UN Women in Kazakhstan, Dina Amrisheva, and the Rector of the University, Janar Temirbekova. The purpose of the campaign was to prevent, eliminate, and combat violence against women, protect mothers and children, and promote family values. <u>https://old.ayu.edu.kz/archives/95892</u>





Goal 6 - Clean Water and Sanitation Education:

Research:

Related modules-2

Publications in indexes other than Scopus -SCOPUS publications (2023) - 4

1. "Determining the Impact of Particulate Slag on Public Health"

In this study, the indicators of ecologically unfavorable areas are compared with the data from control areas. To determine the environmental dependence of morbidity, the absolute incidence rates are multiplied by 100,000 and then divided by the population of the area. The most polluted area is the Kazygurt microdistrict (near the lead factory), with the control area being Kaitpas. The development of industry and the intensity of pollution are particularly high in urban areas. This situation has led to the excessive accumulation of harmful substances in several regions of Kazakhstan. Pollution is affecting the air, soil, surface and groundwater, as well as agricultural products, posing long-term health risks to the population.





2. "Determining the Degree of Water Purification Contaminated with Heavy Metal Ions Using Daphnia"

In the major cities of our country, urban and industrial wastewater are combined and sent to biofiltration units. Biological methods of wastewater treatment are considered one of the most important and effective methods today. This article explores effective methods for cleaning water contaminated with heavy metal ions through biotesting, and the level of water purification using Daphnia was determined. Daphnia, known for their high sensitivity to toxic metal ions, are proposed as an important biotest that helps increase purification efficiency.

https://www.scopus.com/record/display.uri?eid=2-s2.0-85180830237&origin=resultslist

7 Goal - Affordable and Clean Energy Education: Research:

Related modules-14

Research: Publications in indexes other than Scopus – 1

SCOPUS publications (2023 - - 8



1. Our university hosted a world-renowned professor.

During the session, Ibrahim Dincher delivered a presentation on "Sustainability and Clean Energy Solutions: Applications for Campuses and Cities." The professor not only shared his distinguished research but also discussed various projects he has implemented, the execution process, and research stages. He also focused on important solutions related to harnessing solar and wind energy, "green buildings," and other key issues in his field of expertise.

https://old.ayu.edu.kz/archives/87009

2. A grant project was awarded on the topic "Development of a new vanadium electrolyte composition **and study of reversible** charge transfer mechanisms for use in high-efficiency energy storage **systems**".

Currently, fossil fuels are traditionally the main source of electrical energy, but they cause significant environmental pollution in terms of ecological burden. Alternative or renewable energy sources such as solar, wind, hydroelectricity, and bioenergy provide solutions to these issues as they offer clean and sustainable energy. However, these solutions face challenges due to their dependence on weather conditions and time of day. This has led to the need for the development of efficient energy storage systems capable of storing excess energy during high production periods and ensuring consumption during low production or high-demand energy periods. The development and implementation of energy storage systems with high stability and high energy capacity are key directions for transitioning to sustainable and clean energy sources.

8 Goal - Decent Work and Economic Growth



https://old.ayu.edu.kz/archives/89449

1. A seminar was held on employment **opportunities for gradua**ting students.

The event featured a meeting with Orken Balajanov, Head of the Department of the State Service Affairs Agency of the Republic of Kazakhstan in Turkistan Region and Chairman of the Ethics Council, and Dinara Begalykzy, Head of the Employment and Labor Market Analysis Department of the Employment Coordination and Social Programs Department of Turkistan Region. The seminar was organized for the university's graduating students.

Education: Related modules-22 Research: Publications in indexes other than Scopus – 10 SCOPUS publications (2023) – 10 2. AMERICAN EXPERIENCE: CONFERENCE ON "THE BENEFITS OF OPEN GOVERNMENT FOR BUSINESS AND YOU: AMERICAN PERSPECTIVE"

A conference was held at the Serik Praliyev Conference Hall, organized by the Faculty of Economics, Management, and Law. The conference focused on the introduction and importance of a new project by Nazarke Batyrbek, a PhD student in Public Administration and Local Governance. The main guest of the event was Greg Schneider, Executive Director of the OpenSecrets NGO from Montana, USA. He conducted a seminar titled "The Benefits of Open Government for Business and You: Americ



https://old.ayu.edu.kz/archives/95103

9 Goal - Industry, Innovation, and Infrastructure

Education:

Related modules -13

Research:

Publications in indexes other than Scopus – 8 SCOPUS publications (2023) - 9



https://old.ayu.edu.kz/archives/94758

1. The Minister of Ecology and Natural Resources of Kazakhstan, Erlan Nysanbayev, visited the Botanical Garden of Ahmed Yasawi University in Turkestan and got acquainted with the ongoing work.

2. A seminar on commercialization grants for scientific projects was held at our university.

A seminar on grants for the commercialization of scientific and scientific-technical results was organized by our university and the Science Fund JSC for representatives from science and business. The event was attended by our university's faculty, scientists, and students, as well as representatives from other universities and research institutes, and entrepreneurs from the Turkistan region interested in commercializing scientific and scientifictechnical results and obtaining grants.



https://old.ayu.edu.kz/archives/92045

10 Goal - Reduced Inequality

Education:

Related modules-2

Research:

Publications in indexes other than Scopus -

SCOPUS publications (2023) - 4



Campaign for Reducing Inequality:

The aim of the campaign is to prevent, avoid, and address violence against women, protect mothers and children, and promote family values.

https://old.ayu.edu.kz/archi ves/958921

11 Goal - Sustainable Cities and Communities

Education: Related modules-6 Research: Publications in indexes other than Scopus – 1 SCOPUS publications (2023) - 5

Seminar on "Turkestan During the Colonial Period":

An online seminar was held by the Turkology Research Institute of Khoja Ahmed Yasawi International Kazakh-Turkish University. Dr. Murat Ozkan (Ordu University) presented on the topic "Turkestan During the Colonial Period." https://old.ayu.edu.kz/archives/95568

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12 Goal - Responsible Consumption and Production Education:

Related modules-2

Research:

Publications in indexes other than Scopus -0 SCOPUS publications (2023) - 4



https://old.ayu.edu.kz/archives/93657



A hybrid international seminar titled "Ways and Future of Preserving Orchard Agriculture and Processing Its Products" was held at our university.

This seminar was organized as part of the grant project titled "Preservation of the Valuable Genetic Resources of the Botanical Garden of the International Kazakh-Turkish University through the Commercial Use of Biological Resources Based on Innovative Technologies."

13 Goal - Climate Action Education:

Related modules-3

Research:

Publications in indexes other than Scopus -1 SCOPUS publications (2023) - 3

The Minister of Ecology visited the Botanical Garden of Ahmet Yassawi University.



The Minister of Ecology and Natural Resources of Kazakhstan, Erlan Nysanbaev, made a special visit to the Botanical Garden of the Khoja Ahmed Yasawi University in Turkestan, where he familiarized himself with the ongoing work. The Botanical Garden of the university has been established for nearly 30 years. Covering an area of 88 hectares, the garden has introduced 59 genera, 28 families, and 127 species of ornamental, fruit-bearing, shrub, and flowering plants from Kazakhstan and neighboring countries. The collection has been adapted to the harsh climatic conditions of the region.

14 Goal - Life Below Water

Education:

Related modules-2 **Research:** Publications in indexes other than Scopus – 3 **SCOPUS publications (2023) - 1**

Scientific Project:

Hydrophysical regime, ecological condition, and water quality of the Caspian Sea's coastal zone in the Kazakhstan sector.



The goal of the project is to determine the relationships between the water quality and ecological condition of the Caspian Sea's Kazakhstan shelf and the regime of sea currents. To achieve this, the study aims to investigate the direction of currents on the shelf, the presence or absence of upwelling processes over the sea's water column, and to create a regional hydrodynamic model of circulation in the Kazakhstan sector of the Caspian Sea.

https://ayu.edu.kz/admin/ckeditor_files/files/%D 0%90%D0%A014869522.pdf

15 Goal - Life On Land

Education: Related modules-29 Research: Publications in indexes other than Scopus -1 SCOPUS publications (2023) - 1

1. The international scientific-practical **seminar titled "Improving Soil Condition as a Guarantee for Human Health"** has started.



This international-level seminar was initiated by the Administration of the Turkistan Region, the Agricultural Science Academy of Kazakhstan, the International Kazakh-Turkish University named after Khoja Akhmet Yasawi, and the "Yasawi" Education Center of the Agricultural Science Academy of Kazakhstan.



2. Grant project:

"Creation of a collection of primary materials of tulips in Kazakhstan, development and implementation of innovative technologies for the propagation and cultivation of exclusive species and varieties."

https://ayu.edu.kz/admin/ckeditor_files/files/A P14870298.pdf

16 Goal - Peace, Justice, and Strong Institutions

Education:

Related modules-17

Research:

Publications in indexes other than Scopus-4 SCOPUS publications (2023) - 4

1. A seminar titled "Human Rights in a Secular **State**" was held.

At our university, a conference was held on the 75th anniversary of the adoption of the "Universal Declaration of Human Rights" and the 30th anniversary of Kazakhstan's adoption of the "Convention on the Rights of the Child." The seminar focused on human rights issues in a secular state.



https://old.ayu.edu.kz/archives/95046



2.Additionally, the conference featured special presentations by the Chief Imam of Turkestan Region, Erzhan Tolepov, and the Dean of the Faculty of Theology, Dosai Kenjetai. This gathering was dedicated to human rights issues within the context of Kazakhstan's establishment as a secular state. Topics discussed at the conference included: scientific perspectives on human rights in a secular state; issues related to human rights in Kazakhstan as a secular state; the realization of the right to freedom of conscience in a secular society; and approaches to protecting human rights in the regulation of religious activities by the state.

16 Goal - Peace, Justice, and Strong Institutions

An open lecture titled "Prosecutor's Hour: Drugs and Adolescents" was held. An open lecture on "Prosecutor's Hour: Drugs and Adolescents" was conducted at our institution with the participation of specialists from the Prosecutor's Office of Turkestan Region. The event aimed to raise awareness among youth about the dangers of synthetic drugs and the consequences of drug addiction.





Bakhytzhan Senkibayev, Prosecutor from the Criminal Prosecution Legality Supervision Department of the Turkestan Regional Prosecutor's Office, explained how investigative procedures are conducted in drugrelated crimes. This important meeting was held at our university as part of the implementation of measures to combat drug-related offenses.

17 Goal - Partnership for the Goals

Education: Related modules -2

Research: Total publications-42

1. Our University Enters QS Sustainability Rankings 2024 for the First Time

Our university has been included for the first time in the QS Sustainability Rankings 2024. This new edition of the rankings, which features 1,403 of the world's top universities in achieving sustainable development goals, has placed our institution at 1151-1200 globally. In the Asian region, our university ranks 362nd, and among universities in Kazakhstan, it has achieved an impressive 8th place. This recognition underscores our commitment to sustainability and excellence in contributing to the sustainable development goals.





https://old.ayu.edu.kz/archives/95858



2. Our University Receives Certificate from Prestigious QS World University Rankings

Our university has been awarded a commemorative plaque and certificate from one of the most influential global university rankings, QS World University Rankings 2024. The award was personally presented to University Rector Zhanar Temirbekova by Nunzio Quacquarelli, President and Founder of QS Quacquarelli Symonds. This recognition highlights our university's significant position on the global academic stage, reinforcing its influence and reputation worldwide.