Andijan State Technical Institute

SDG Report

2022–2025

Introduction

As Andijan State Technical Institute's vision, according to the SDG, is to be a "Leading University Committed to Social Responsibility and Sustainable Development through Innovation," ASTI has integrated the 17 Sustainable Development Goals (SDGs) into its academic, teaching, research, and outreach activities, along with mission-based strategies deemed necessary to achieve the six Strategic Goals (SGs).

To introduce Andijan State Technical University, we will briefly discuss the history and development of our university.

Andijan State Technical Institute is one of the higher educational institutions located in the Andijan region. The institute was founded in 1976 as the Andijan branch of the Tashkent Institute of National Economy (now Tashkent State Economic University). The institute has been functioning as an **independent institute** since 1992 (first under the name Andijan Institute of Economics and Management, and then under other names).

A brief history of the institute:

1. The higher educational institution was founded in 1976 as the Andijan branch of the Tashkent Institute of National Economy (now Tashkent State Economic University). By a decree of the President of the Republic of Uzbekistan dated June 6, 1991, the Tashkent Institute of National Economy was transformed into the Tashkent State Economic University.

2. On the basis of the Andijan branch of the Tashkent State Economic University, in accordance with the Decree of the President of the Republic of Uzbekistan No. 217 of February 28, 1992, the Andijan Institute of Economics and Management was established.

3. By the resolution of the Cabinet of Ministers of the Republic of Uzbekistan dated June 3, 1995 No. 211 "On improving the system of higher educational institutions of the Republic of Uzbekistan" (see link: https://lex.uz/docs/461652 in in Russian, https://lex.uz/docs/7126369 in english), the Andijan Engineering and Economic Institute was formed on the basis of the Andijan Institute of Economics and Management and the Andijan Experimental Training and Production Center.

4. Based on the resolution of the President of the Republic of Uzbekistan dated May 20, 2011 No. PP-1533 "On measures to strengthen the material and technical base of higher educational institutions and radically improve the quality of training of highly qualified specialists" (see link: https://lex.uz/acts/2057277) and Decree of the Cabinet of Ministers of the Republic of Uzbekistan dated July 25, 2011 No. 214 "On the transformation of the Andijan institute of engineering and economics into the Andijan institute of mechanical engineering" (see link:

https://lex.uz/ru/docs/1837258 in in Russian and https://lex.uz/ru/docs/7149955 in english).

5. By the resolution of the President of the Republic of Uzbekistan of 18.11.2024 No. PP-396 "On the Establishment of the Andijan State Technical Institute" (see link: https://www.lex.uz/ru/docs/7232600), the Andijan State Technical Institute was formed on the basis of the Andijan Engineering Institute, the Andijan Institute of Economics and Construction, as well as the Andijan Faculty of the Tashkent Institute of Textile and Light Industry.

By 2025, more than 33 thousand specialists were trained at the institute.

The official address of the institute: 170019, Republic of Uzbekistan, Andijan region, Andijan city, Bobura avenue, 56. E-mail: info@astiedu.uz

General information about Andijan State Technical Institute

Full name of the university	**Andijan State Technical Institute**
University status	**state university**
Date of formation (name, renamed)	**1976, Andijan branch of the Tashkent Institute of National Economy** **1992, Andijan Institute of Economics and Management** **1995, Andijan Institute of Engineering and Economics** **2011, Andijan Machine-Building Institute** **2024, Andijan State Technical Institute**
Website	**https://astiedu.uz**
Faks:	**+998-74-223-43-67**
E mail:	**info@astiedu.uz**
State accreditation	
location	**56 Bobura Avenue, Andijan Region, 170019, Republic of Uzbekistan**
Rector	**Turdialiev Umid Muxtaraliyevich**
License (regulatory document)	**№ 60**
Number of students (day, part-time)	**10745**
Number of faculty	**7**
EDUCATION term	**Bachelor - 4 years, Master - 2 years**

MISSION OF THE INSTITUTE: The mission of the Andijan State Technical Institute is to provide training for specialists with higher education with modern knowledge and practical skills for sectors of the economy such as automotive, electrical engineering, energy, textile industry, mechanical engineering, construction and other industries of the Andijan region, based on improving the training system, as well as effective use of available resources and strengthening the material and technical base of the university.

Andijan State Technical Institute has 7 faculties and 18 departments in its structure.

Actual information about Andijan State Technical Institute:

■ **the number of implemented programs (I and II levels)** - 48 undergraduate courses, of which there are already graduates in 21 areas; as well as 25 master's specialties, of which there are graduates in 16 specialties.

- **number of doctoral studies** – 134
- **number of doctoral specialties** – 23
- **number of students at each level** The institute has a total of 10,745 students, including 4418 students in the full-time department in 48 areas of undergraduate education, 6033 students in the correspondence department, 159 students in the evening department and 135 students in 25 master's specialties.
- **the number of foreign students** - only 6 students, of which 3 students from Tunisia, 2 students from Kyrgyzstan, 1 doctoral student from Ethiopia.
- **number of employees (teaching and non-academic staff)** - the number of employees is 880, including 502 teachers, of which 420 teachers in the main staff and 82 part-time teachers. The number of professors with academic degrees and titles is 146 people. Of these, 15 (3.0%) doctors of science, 131 (26.1%) candidates of science and doctors of philosophy (PhD). ***Scientific potential - 29%.*** The average age of doctors of sciences is 61, candidates of sciences are 34 years old.
- **place in the ranking:**

- ***19th place in the national ranking*** *among 120 national universities (according to the results of 2022);*

- ***479th place in the international ranking*** *of world universities "UI Green Metric World University Ranking (according to the results of 2024);*

ANALYSIS OF THE ANDIJAN STATE TECHNICAL INSTITUTE'S PERFORMANCE INDICATORS WITHIN THE FRAMEWORK OF THE SUSTAINABLE DEVELOPMENT GOALS

The university's environment and infrastructure.

These include both specific "environmental" indicators characterizing the campus's overall relationship with the natural environment (for example, the percentage of campus area covered by forest vegetation), and indicators widely used in major academic rankings (number of students, number of academic and administrative staff).

By participating in the Green Metrics global ranking since 2022, Andijan State Technical Institute has gained extensive international experience in implementing sustainable development objectives. Based on this, we list the main issues that were included in the institute's infrastructure agenda:

- Improving the condition of the buildings themselves in terms of convenience for students, non-academic staff, and faculty;
- Creating comfort for all users of the institute's campus infrastructure, which is very important for the social and psychological well-being of people, especially students;
- Increasing the amount of vegetation, both trees and ornamental plants, etc.
- Increasing the area of lawns, which is very important for Anamolian heat in valley conditions;
- Improving buildings to retain heat in winter and reduce heat in summer;
- Implementing additional measures to address climate change, such as metering vegetation and monitoring its condition, etc.

17 SUSTAINABLE DEVELOPMENT GOALS (SDGS)

SDG 1 No Poverty

SDG 2 Zero Hunger

SDG 3 Good Health and Well-being

SDG 4 Quality Education

SDG 5 Gender Equality

SDG 6 Clean Water and Sanitation

SDG 7 Affordable and Clean Energy

SDG 8 Decent Work and Economic Growth

SDG 9 Industry, Innovation, and Infrastructure

SDG 10 Reduced Inequalities

SDG 11 Sustainable Cities and Communities

SDG 12 Responsible Consumption and Production

SDG 13 Climate Action SDG

SDG 14 Life Below Water SDG

SDG 15 Life on Land

SDG 16 Peace, Justice and Strong Institutions

SDG 17 Partnerships for the Goals

The Andijan State Technical Institute continues its extensive work to eliminate poverty among the population of the Andijan region. In 2024, the rector of the institute was assigned to 23 young people from the Marifat mahalla, who received financial assistance totaling over 40 million soums. In 2023, financial and other assistance totaling over 80 million soums was provided to 50 young residents. Specific types of assistance were determined based on a study of the desires and needs of young people. For example, some are provided with funds for employment, others receive assistance with tuition fees, and loan repayment assistance. Particular attention was paid to young people wishing to attend English and information technology courses. The rector of the institute, U.M. Turdialiev, visited the residences of young people in need of assistance.

Assistance provided to a total of 5 citizens living in the territory of the "Zakhkash" MFY of the Balikchi district of Andijan region in 2025

1. Usmonova Sevara

1.1. Initially, in order to ensure employment, a sewing machine was provided to the institute to use and 300 meters of fabric for sewing bedspreads for students, and employment was provided on a contract basis

1.3. Then, a new sewing machine and an overlock were purchased on a subsidy basis.

1.4. Fruit trees and melon crops were planted in the house within the framework of the green space

2. Akbarov Sadullo

2.1. In order to ensure employment, a loan of 33 million was allocated and an electric ant was purchased.

2.2. In addition, in order to ensure additional employment, a job was placed in a handicraft (blacksmith) workshop on the territory of the MFY.

3. Urinova Muminakhon

3.1. Based on the request of this citizen, a sewing machine and an overlock were purchased for family use (for his mother) on a subsidized basis.

3.2. Fruit trees and melons were planted in his family within the green space.

4. Tashtemirov Khabibulloh

4.1. Currently a seasonal worker, home repairman in Tashkent.

4.2. 5 st. of potatoes, 0.5 st. of tomatoes, 0.5 st. of bell peppers and 6 apple and grape seedlings were purchased and planted within the green space.

5. Egamberdieva Musharabkhon

5.1. Potato seeds were purchased and given to the family for planting

5.2. Constantly informed about his condition


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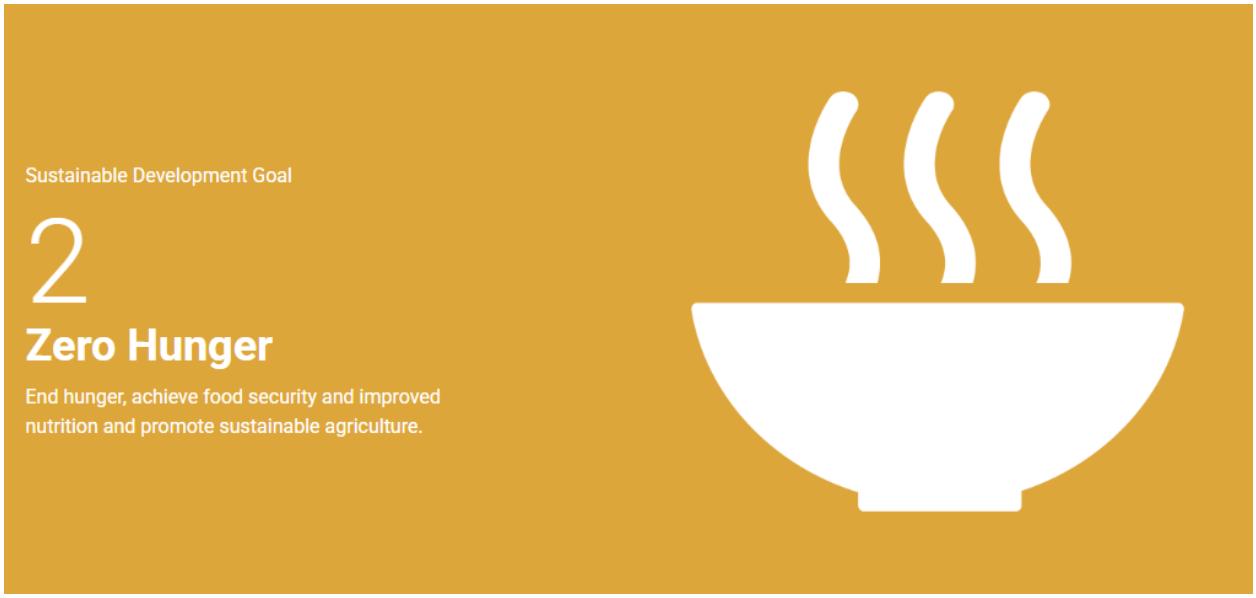
Andijan State Technical Institute continues to carry out extensive work to eliminate poverty among the population of the Andijan region. So, in 2024, 23 young people from among the population of the mahalla “Marifat” were assigned to the rector of the Andijan State Technical Institute, who received financial assistance in the amount of more than 40 million soums. In 2023, financial and other assistance was provided to 50 young residents in the amount of more than 80 million soums. Specific types of assistance were identified based on the study of the desires and problems of young people. So, some are provided with means of work, some have been assisted in paying the contract amount of their studies, as well as assistance in paying for a loan. Special attention was paid to young people who want to attend English language and information technology courses. The rector of the Institute, U.M.Turdialiev, visited the places of residence of young people in need of help.



2. Ending Hunger and Ensuring

Food Security

Andijan State Technical Institute (ASTI) is implementing a developed strategy for food safety and a healthy lifestyle. Based on this strategy, as outlined in last year's report, it was planned to build a new food center on the university campus to provide students, staff, and the general public with high-quality, hygienic food at affordable prices. Construction of a new administrative and academic building began in 2024. Construction has been completed, and finishing work is scheduled to be completed by the end of 2025. This building will house a new food center with all amenities. Additionally, the food center can be used as a coworking space, where students can work together, read books, and socialize with peers. Students have access to Wi-Fi, clean water, convenient transportation, and compliance with food safety and health standards.

The administration paid particular attention to international students far from their home countries. For example, the rector of the institute personally celebrated the New Year 2025 with them. At the same time, national dishes of the countries from which the foreign students came were prepared.

End hunger and ensure food security

Andijan State Technical Institute (ASTI) is implementing a developed food safety strategy for a healthy lifestyle. Based on this strategy, as outlined in last year's report, it was planned to build a new food service center on the university campus to provide students, staff, and the general public with high-quality, hygienic food at affordable prices. Construction of a new

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The administration paid close attention to international students far from their home countries. The institute's rector personally celebrated the New Year 2025 with them. National dishes from the students' home countries were also prepared.

The Automobile Engineering Department of the Andijan State Technical Institute is one of the educational institutions serving as a center for training in mechanical engineering and agriculture, as well as a retail outlet for safe agricultural products. The Aggie store, established as part of the project, continues its operations. The store sells a variety of safe agricultural products, including fruits and vegetables, to consumers. The assortment includes pesticide-free vegetables, processed foods, seeds, plants, trees, certified garden soil, agricultural equipment, and bioorganic fertilizers. These products are carefully selected from various departments and agricultural supply centers, farmer associations, and online entrepreneurs to ensure consumer confidence in the quality of the products.

Currently, all four student residences have grocery stores that provide students with high-quality, safe, and affordable food products, including agricultural produce.

The 2024 report did not mention that the institute makes wholesale purchases of agricultural products every fall. All institute employees, including academic and non-academic staff, will be provided with agricultural produce to prepare for winter. For this purpose, each employee will be provided with funds equal to twice the minimum wage established in Uzbekistan.

Safe Agricultural Produce

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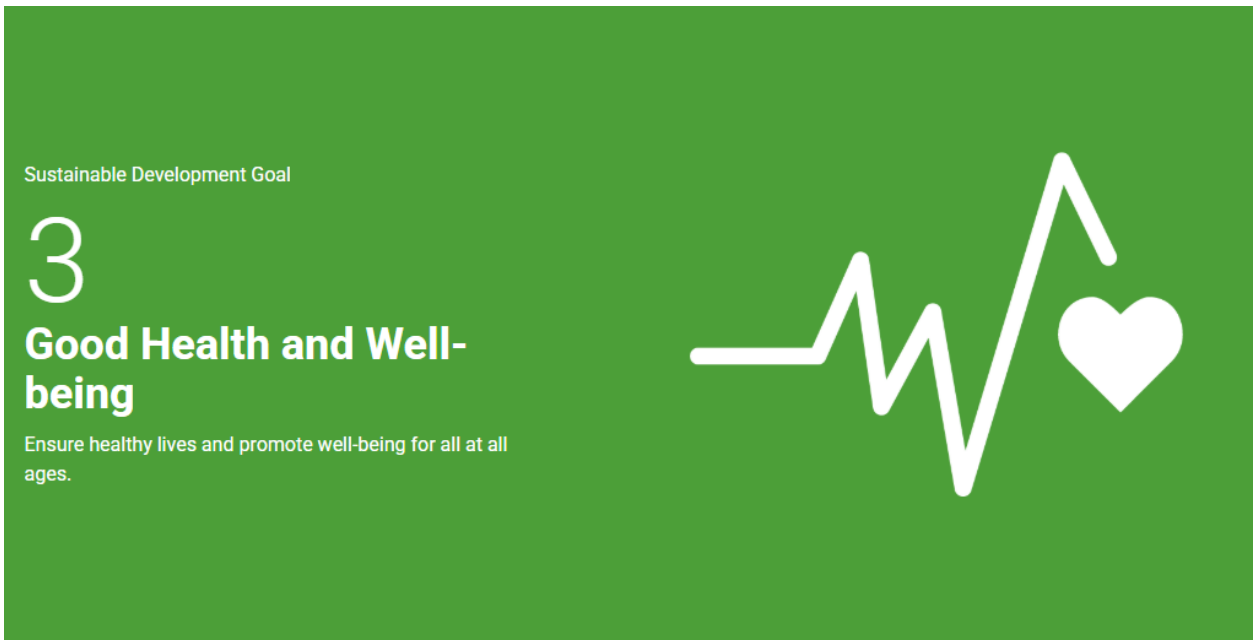

To ensure the health and well-being of students and staff, the "Student" sports club continues its operations at the Andijan State Technical Institute. As stated in the 2024 report, the institute allocated 2 billion 163 million soums in 2023 to improve the sports club's effectiveness and organize student leisure activities. These funds were used to construct and commission one work-out facility, two mini-football stadiums, one basketball court, one beach volleyball court, one volleyball court, one long jump court, one running track, one archery range, and one shooting range on the institute's main building.

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The indicator of simultaneous maintenance of sports facilities separately was 200 people in 2021, 260 people in 2022, 386 people in 2023, and 580 people In 2024.

The number of members of the sports club in 2021 was 1,300 people, in 2022 1,450 people, in 2023 1,780 people. In 2024, this number exceeds more than 2,000 people.

Andijan State Technical Institute continues to implement its smoke-free policy across all university departments and has launched anti-smoking campaigns to educate staff and students about the dangers of smoking, promote a culture of hygiene, and post no-smoking warning signs in the workplace. The institute also operates a smoking cessation counseling service, which helps students and staff, as well as other smokers, quit smoking. This counseling service is designed for anyone concerned about this issue, whether they themselves or their loved ones,

and helps them understand successful steps to quitting smoking as part of promoting public health. Anyone can access this service through the counseling service.

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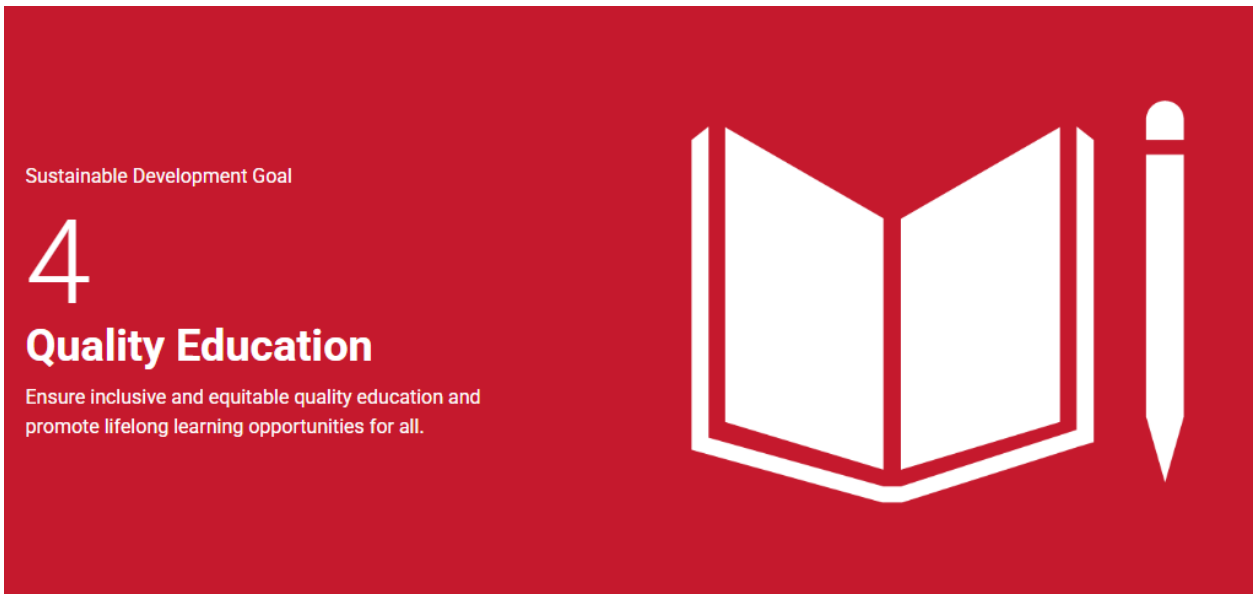
Andijan State Technical Institute has on-campus medical care. This care is primarily provided to students living in student residences located on the institute's campuses.

Routine medical examinations are conducted annually for students and staff. Blood donation initiatives are organized at the initiative of students and staff.

The institute continues its policy of providing assistance to people with disabilities.



Internal quality assurance policy of Andijan State Technical Institute was approved by the Scientific Council of the Institute by the decision of the meeting No. 1 dated March 25, 2025. This policy is considered a component of strategic management and is viewed in conjunction with other documents, particularly the mission statement, strategic plan, and academic policy.

Andijan State Technical Institute internal quality provide policy quality provide and quality relentlessly development culture according to development b covers established general approaches, underlying principles and underlying mechanisms.

Internal quality assurance policies and standards are the basis of a logically ordered and continuous institution's internal quality assurance system. The system embodies a continuous improvement cycle and supports the development of a quality culture at all stages of the institution's activities.

This policy is implemented through internal quality assurance standards and processes that take into account the participation of all structural units.

In order to ensure the quality of education, great attention is paid to three areas of educational and methodological activities:

- provision of educational and methodological literature;

- the passage of a foreign internship by teaching professors;

- involvement of well-known scientists from leading universities of foreign countries in the educational process.

Interest in addressing sustainable development issues is confirmed by the number of publications indexed in various databases. According to Google Scholar, the number of publications has been increasing over the past three years.

For example, the number of publications over the past five years (2019-2024) based on SCOPUS is 191. This is the result of publications in international journals with a high IMPACT factor, the number of which increases year after year. The dynamics of publication performance are characterized by the following data:

Years	Number of citations in Google Scholar*	Number of articles published in foreign journals**	Number of articles in national journals of the Higher Attestation Commission	Number of published monographs
2021	597	218,48	283,67	28
2022	7699	411,26	647,48	76
2023	22716	364,13	899,75	68
2024	11137	460,5	1164.67	120

* - the number of faculty members has not increased significantly.

** - the share of authors in publications is taken into account.

Andijan State Technical Institute strives to minimize its environmental impact, recognizes its responsibility to create an environmentally oriented society, and implements various international projects aimed at achieving sustainable development goals.

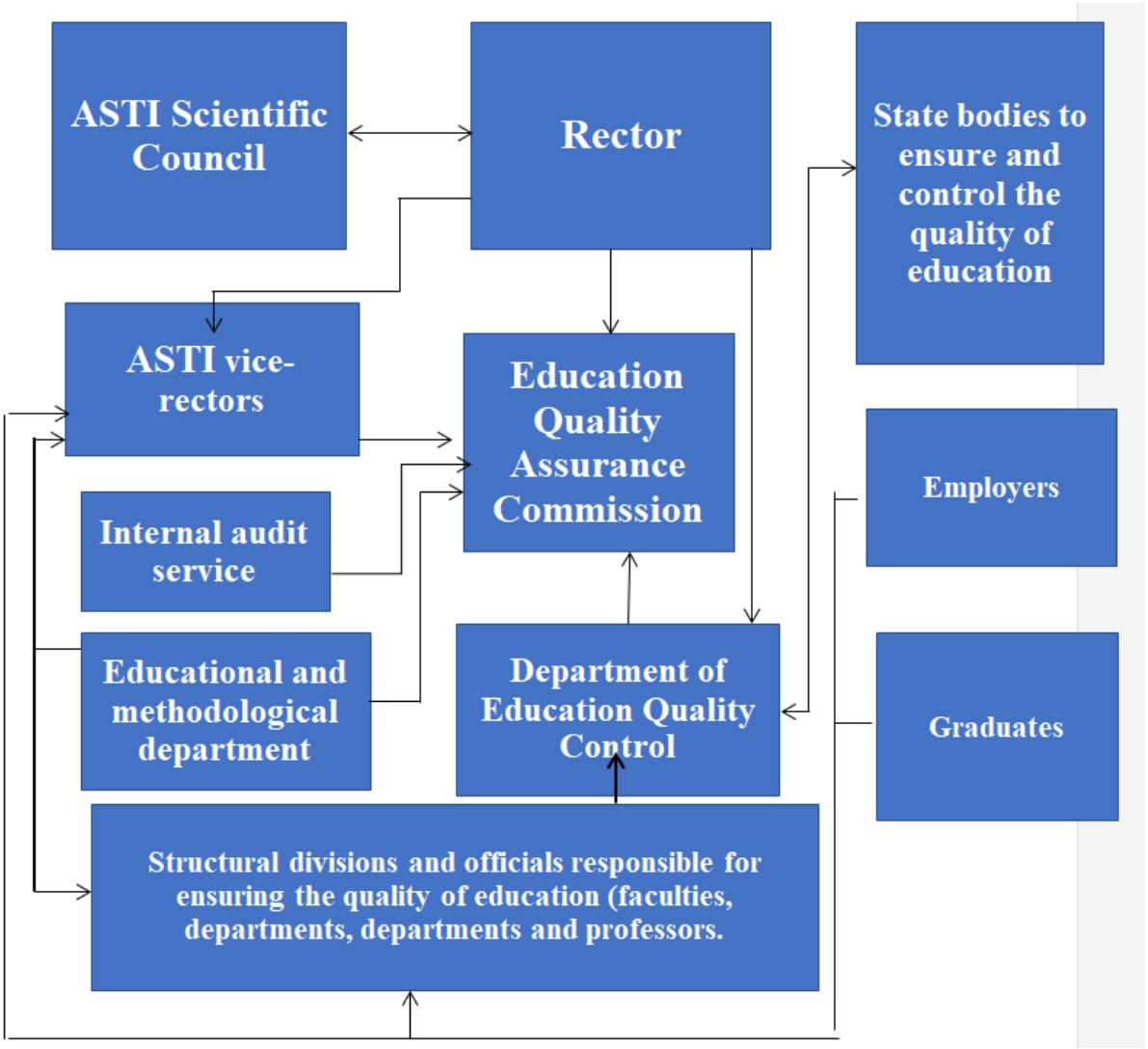
This includes 11 indicators assessing the performance of universities in creating and disseminating environmental knowledge (curriculums on environmental issues, research funds focused on environmental studies, the number of published scientific papers on environmental issues, etc.).

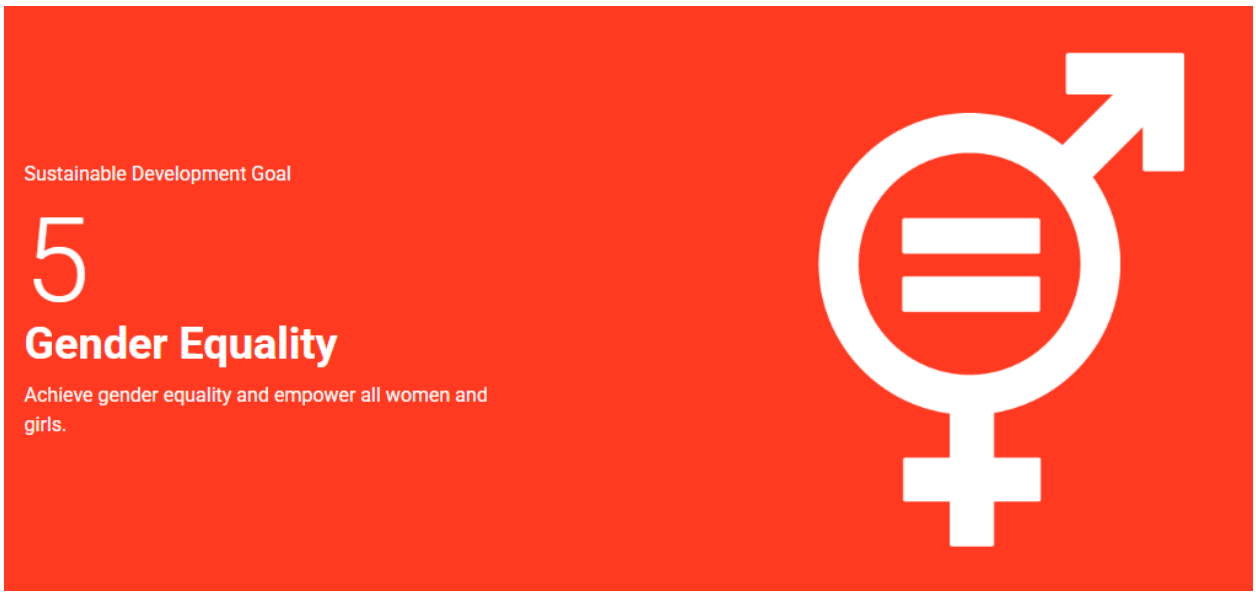
Education for sustainable development is a priority area of sustainable development. Around the world, there is an endless search for educational models and processes that would facilitate the implementation of new, important, and relevant ideas and programs that meet the needs of future generations.

The Institute works to create programs that address needs and relevance.

ANDIJAN STATE TECHNICAL INSTITUTE

INTERNAL QUALITY PROVIDE SYSTEM





At the Andijan State Technical Institute, all activities are based on principles of gender equality. Women hold leadership positions at the institute alongside men. For example, the Head of the International Cooperation Department is a woman, Fotima Karimova. The Head of the Economics Department is also a woman, Gulmira Zufarova. The Head of the Information Technology Department is also a woman, Saida Atajonova, and the Head of the Chemistry and Chemical Engineering Department is also a woman, Gulistan Orazimbetova. Several faculties have female deputy deans, including Gulsora Yusupova and Oybahor Sotiboldieva. It's worth noting that the institute has seven faculties and 18 departments. This demonstrates that women are actively involved in educational management.

The institute has a total of 483 teachers, of which 205 are women. This is 42.5 percent.

In the field of research, there is a trend toward an increase in the number of female faculty members with advanced degrees. This includes both the overall number and the number of women. Among the female scientists are doctors of science—Doctor of Chemistry, Professor Gulistan Orazimbetova, and Doctor of Pedagogical Sciences, Professor Gulchekhra Umarova..

The institute has a total of 154 teachers, of which 61 are women. This is 39.6 percent.

Every year, in honor of Teachers' and Mentors' Day, sports competitions are held among female employees in volleyball, chess, checkers, and table tennis. Winners receive awards.

Management provides financial incentives for women in line with the principles of gender equality. For example, in honor of March 8, Independence Day, and Teachers' and Mentors' Day, every second award recipient is a woman. Among those awarded is Saida Atazhanova, Head of

the Information Technology Department, who received the state award, the "SHUKHRAT" medal. 

It's worth noting that annual events are held to celebrate the achievements and research work of female faculty members. For example, a meeting of women scientists was held in October 2025. Discussions and meetings are also held at student residences. Representatives of various public organizations are invited to attend.

Creating Gender Equality. Gender Identity and Dress on Graduation Day

Considering the importance of gender equality and diversity, Andijan State Technical Institute has developed dress codes and regulations for graduates on Graduation Day, allowing students to choose clothing consistent with their gender identity for the graduation ceremony.

All of this information demonstrates that Andijan State Technical Institute prioritizes rights and freedoms to ensure gender equality and human rights, to avoid discrimination, promote gender justice, and protect freedom of expression, which leads to physical, mental, social, and intellectual well-being, including the further development of personal potential in the future.

Conversations and meetings are also held in the places where students live. Representatives of various public organizations are invited to the events.

Andijan State Technical Institute has realized the importance of gender equality and diversity through an issuance of Andijan State Technical Institute Announcements regarding dressing and regulations for graduates on its commencement day, allowing students to dress themselves based on their gender identity to participate in the Andijan State Technical Institute Commencement Ceremony.

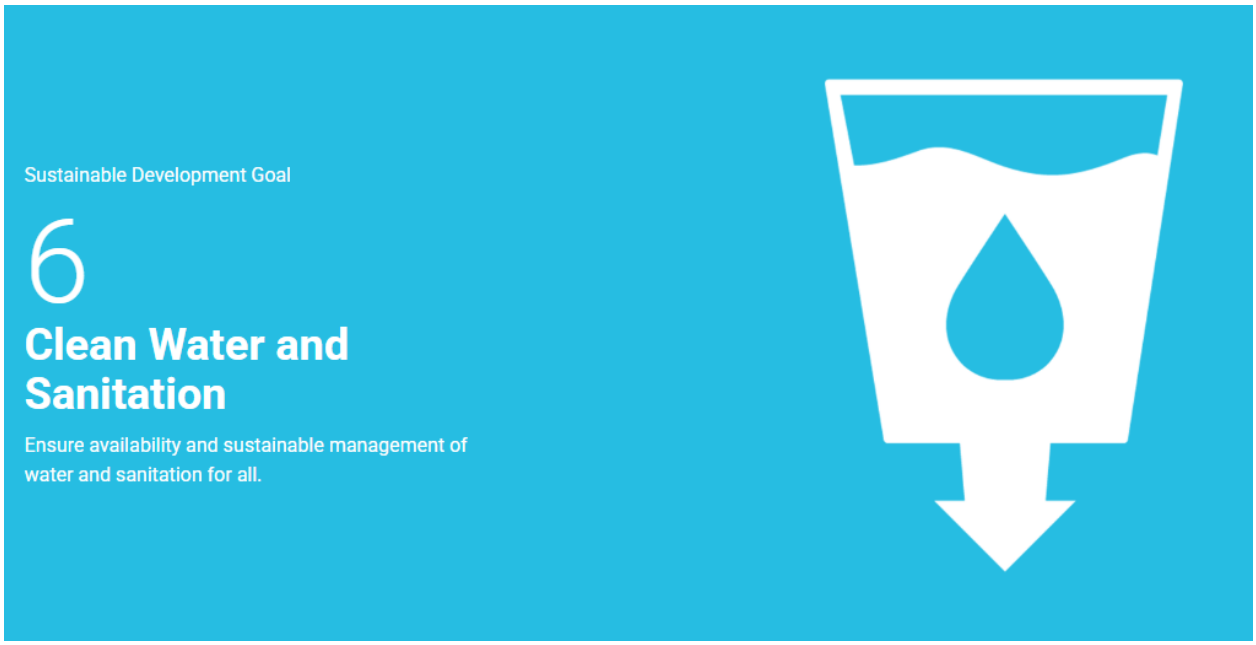
All this information indicates that Andijan State Technical Institute values rights and freedoms to ensure gender equality and human rights, in order to prevent discrimination, promote gender justice, and protect freedom of expression, which leads to a state of physical, mental, social, and intellectual well-being, including the further development of personal potential in the future.

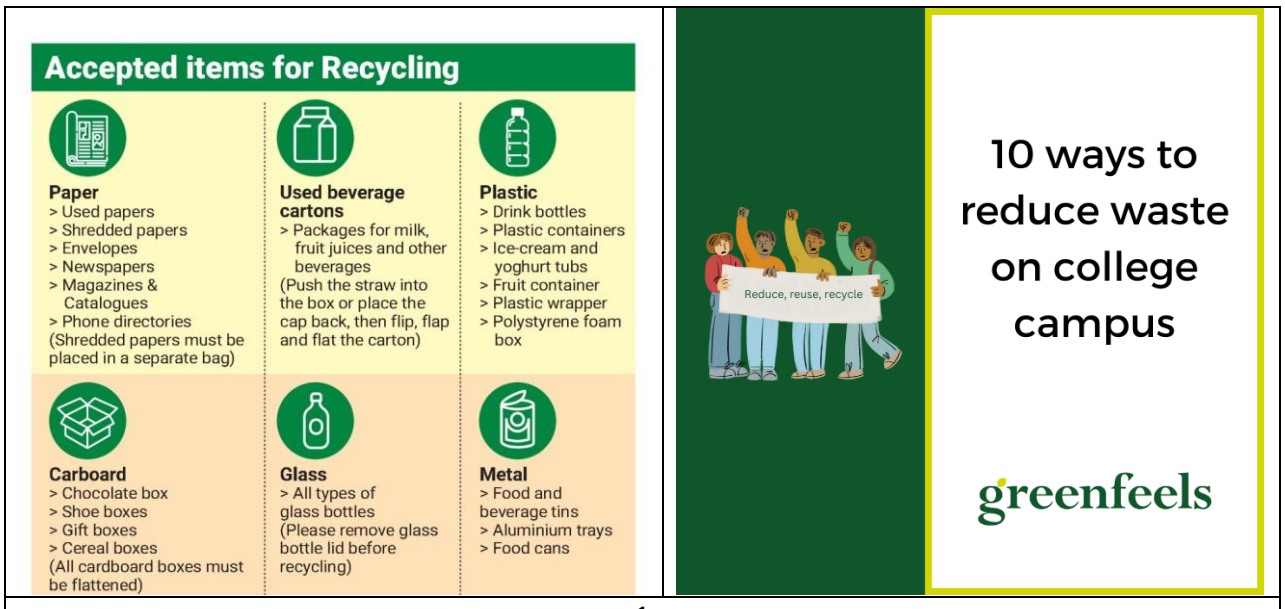
ENSURING TIMELY AND EFFECTIVE COMMUNICATION WITH STUDENTS

Students enrolled in undergraduate and graduate programs undergo a program to adapt to the institute's corporate culture. This program includes familiarization with the educational process and leisure opportunities, accommodations, food, sports, creative arts, and science, and helps remove barriers to interpersonal communication. To this end, a project involving over 30 tutors is being implemented. Tutors are assigned to groups of first-year students to prevent learning difficulties and academic failure. The student union committee provides advice on financial aid and improving financial well-being. Students with disabilities and those with disabilities receive financial counseling in collaboration with a social work specialist (Regulations on the provision of scholarships and other forms of social support for students studying at the expense of the state budget).

The dean's office has a deputy dean for spiritual and educational affairs and youth work, who provides academic consultations on the academic process and assists students facing difficulties in mastering the curriculum (creating individual schedules to address academic debt, monitoring academic progress, and preparing for competitions and olympiads).

Andijan State Technical Institute places significant emphasis on creating favorable conditions (material, personnel, financial, and technical) for learning. The institute's staff includes competent specialists who support student learning. They are provided with designated spaces and equipped workspaces (a medical center, a psychological center, a social center, a center for creative development and additional education, an information policy center, etc.). Student community organizations are also actively engaged to obtain feedback on needs, foster constructive dialogue to address student concerns, and implement a number of joint activities to protect student rights and interests. The institute has a well-developed network of student community organizations, such as the Youth Union and the Association of Gifted Students.



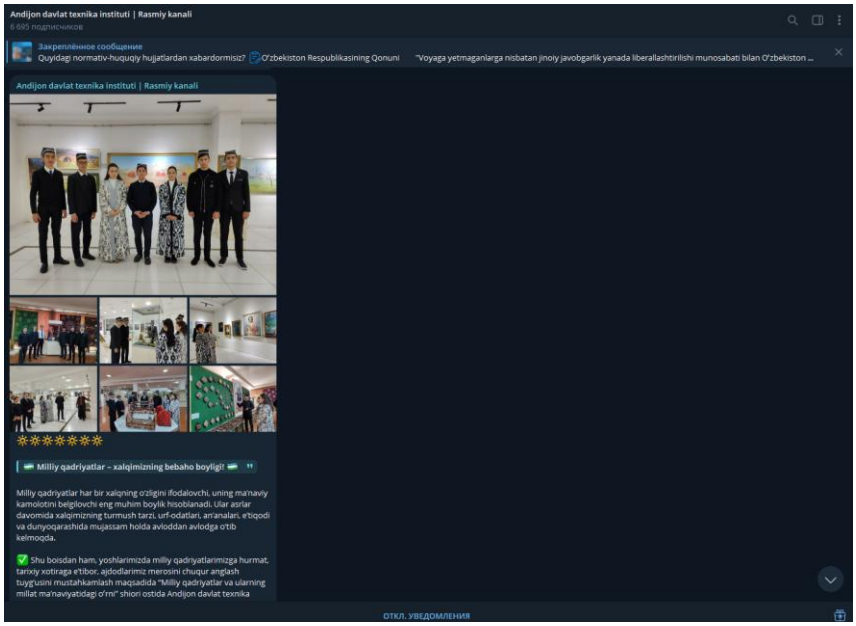


Andijan State Technical Institute has a program to reduce the use of paper and plastic on campus.

Program to Reduce the Use of Paper and Plastic on Campus

Paper and Plastic Reduction Program on Campus

- Awareness and Education Campaign. Andijan State Technical Institute has intensified its awareness and education campaign, especially after the institute began participating in the Green Metrics global rankings.
- Workshops and Seminars: The institute organizes workshops and seminars for students, staff, and faculty to educate them about the environmental impact of paper and plastic use.
- Posters and Information Signs: Signs and posters are placed at the entrances of faculty buildings throughout campus, promoting paperless practices and reducing plastic use.
- Social Media Campaign: Social media, newsletters, and the campus website are used to disseminate tips and information about the benefits of reducing paper and plastic use. The institute makes extensive use of dedicated Telegram groups and chats for this purpose. For example, such official telegram groups include “Matbuot va muloqot” (has 205 members) and “Andijon davlat texnika institute/Rasmiy kanali” (has 6866 subscribers)



Rational use of water resources (10%). This includes seven indicators on water conservation, recycled water use, and more.

The institute's campuses are undergoing a phased modernization of water supply and wastewater disposal systems, as part of a major overhaul program, using modern water conservation measures.

In accordance with its sustainable development program, the Institute is implementing water conservation and recycled water supply programs:

1. Installing water-saving devices. Total water consumption for 2025 was 44,332 m^3. According to online data, water savings from various water-saving devices range from 20-30%.

2. Collecting rainwater for watering plants and washing cars.

Inorganic Waste Processing

At the Andijan State Technical Institute, special attention is paid to inorganic waste processing as part of its program to achieve the Sustainable Development Goals. Inorganic waste processing includes the recycling and disposal of materials that are not biodegradable and do not originate from living organisms. At the institute, this type of waste includes metals, glass, plastics, wood, and other materials that cannot be broken down by natural processes.

The institute implements the following inorganic waste processing activities:

• Collection and separate storage of inorganic waste for further use through recycling.

• Contracts with specialized organizations that collect metals for further processing. This primarily concerns metals commonly referred to as frequently recycled inorganic materials, such as aluminum and steel.

• Separate collection of certain types of plastics. Plastic bottles collected at designated locations are typically donated to low-income families, who then return them to designated collection points and sell them. This also contributes to reducing individual poverty.

Efficiency and benefits of this activity:

1. Separate collection reduces pollution: improved sanitation and hygiene on campuses, reduced odor from waste, and oxygen conservation.

2. Recovers a portion of the raw material needs.

The "Waste Recycling" area (18%) includes seven indicators assessing the university's waste recycling capabilities (institutional waste recycling program, toxic waste recycling, policy to reduce paper and plastic use on campus, etc.).

Andijan State Technical Institute places great emphasis on reducing paper use. For example, the administration has instituted a policy of using double-sided printing and has implemented electronic document management systems (https://edo.ijro.uz, https://my.hemis.uz, https://my.gov.uz, and https://dgov.uz).

Students and staff regularly participate in cleanup days to remove trash from the campus and the city, which is then recycled appropriately.

The institute operates a separate waste collection system. Recycling containers have been installed in all buildings, and the container areas have been modernized.

It should be noted that separated waste helps low-income families, as plastic bottles and paper can be recycled for a certain amount at the cost of their potential use. Organic waste from the Student Residences building, such as carrot and potato peelings, is also used as animal feed.

Processing of Inorganic

Waste At the Andijan State Technical Institute, special attention is paid to the issues of processing inorganic waste as part of programs aimed at achieving the Sustainable Development Goals. It is known that processing inorganic waste includes the recycling and disposal of materials that are not biodegradable and do not come from living organisms. At the institute, such waste includes metals, glass, plastics, wood, and other materials that cannot be broken down through natural processes.

Thus, the institute carries out the following activities for processing inorganic waste:

• **Collection and separate storage of inorganic waste for further use through recycling.**

• **Concluding contracts with specialized organizations that engage in the collection of metals for their subsequent recycling.** This mainly concerns metals that are often referred to as frequently recyclable inorganic materials, such as aluminum and steel**.**

• **Separate collection of certain types of plastics.** Plastic bottles collected at specialized locations are usually given to low-income families, who take them to designated points and sell them. In this way, a contribution is also made to reducing poverty among certain individuals.

Total volume toxic waste produced

Type of toxic waste	**Total Produced (ton)**
- electronics	0.3
- lab. Chemicals	0.1
- etc	0.2

The Andijan State Technical Institute has incorporated environmentally friendly wastewater management into its infrastructure. Wastewater management refers to the process of collecting, treating, and safely disposing of waste from homes, businesses, and other facilities.

This activity involves several key stages:

1. Collection: Wastewater from toilets, sinks, showers, and industrial sources is collected through a network of pipes known as a sewer system and sent to a treatment plant.

2. Pretreatment: Large debris, such as branches, stones, and other solids, are removed through filtration and settling processes.

3. Primary Treatment: During this stage, suspended solids settle out of the wastewater in large tanks called settling tanks. Oils and greases are also removed.

4. Secondary Treatment: Remaining organic matter is broken down by bacteria in biological treatment processes such as activated sludge systems, biofilm filters, or biofilters. The goal is to reduce the organic matter content of the wastewater. 5. Tertiary Treatment: This may involve further purification to remove nutrients such as nitrogen and phosphorus, which can harm the environment if discharged without treatment. This step may also include disinfection using chlorine, ultraviolet light, or ozone to kill harmful pathogens.

6. Sludge Treatment: The solid waste (sludge) generated during the treatment process undergoes further treatment using methods such as anaerobic digestion, compaction, and dewatering. This sludge may be incinerated, used as fertilizer, or disposed of in landfills.

7. Disposal: Treated water (wastewater) is discharged into rivers, lakes, or reused for purposes such as irrigation or industrial processes.

Given the complex nature of wastewater treatment and purification, the Andijan State Institute annually contracts with specialized organizations dedicated exclusively to this activity. Thus, in 2025, an agreement was signed.

Each building of the Andijan State Technical Institute has a separate sewerage system for wastewater and clean water (rainwater). As a result, rainwater is collected from the roofs of the buildings and discharged into nearby ponds and canals surrounding the buildings.

Furthermore, the university has buildings where all rainwater is collected and used for watering indoor plants and flushing toilets. Andijan State Technical Institute adheres to a policy of preventing and reducing pollution of rivers and canals of all types, especially from land-based activities. For example, the institute maintains an urban forest in the new city, which is built in the suburban area called Andijan City.

According to Cabinet of Ministers Decision No. 981 of December 11, 2019, the procedure for establishing water protection and sanitary protection zones for water bodies in the Republic of Uzbekistan is defined, as well as the procedures for conducting economic activities within them. Operating procedures are established to prevent pollution of territories, water shortages, the efficient use of water bodies, and the rational use of water resources. Management of waste containing hazardous and toxic substances is also addressed. Furthermore, the Rector of the Andijan State Technical Institute is introducing several measures to support the prevention of water system pollution, such as:

Waste management containing hazardous and toxic materials has also been improved. Thus, the Rector of the Andijan State Technical Institute is introducing several policy measures to support the reduction of water system pollution, such as:

1. Rector's Order No. 386 on the policy of reducing the use of paper and plastic

2. Rector's Order No. 16 of 2020 on the "Zero Plastic" program

Andijan State Technical Institute has envisaged ecological wastewater management in its infrastructure. Wastewater management refers to the process of collecting, treating and safely disposing of waste from homes, industries and other establishments. It typically involves several key stages:

1. Collection: Wastewater from toilets, sinks, showers and industrial sources is collected through a network of pipes known as a sewer system and sent to a treatment plant.
2. Pre-treatment: Large debris such as sticks, stones and other solids are removed through screening and sedimentation processes.
3. Primary Treatment: In this stage, suspended solids settle out of the wastewater in large tanks called clarifiers or settling tanks. Oils and greases are also removed.
4. Secondary Treatment: The remaining organic matter is broken down by bacteria in biological treatment processes such as activated sludge systems, trickling filters, or biofilters. The goal is to reduce the organic matter content of the wastewater.
5. Tertiary Treatment: Further treatment may occur here to remove nutrients such as nitrogen and phosphorus, which can harm the environment if discharged untreated. This step may also include disinfection using chlorine, ultraviolet light, or ozone to kill harmful pathogens.
6. Sludge Treatment: The solid waste (sludge) generated during treatment is further treated using methods such as digestion, thickening, and dewatering. This sludge may be incinerated, used as fertilizer, or disposed of in landfills.
7. Disposal: Treated water (wastewater) is discharged into rivers, lakes or oceans or reused for purposes such as irrigation or industrial processes.

Given the complex process of wastewater treatment and purification, the Andijan State Institute annually enters into contracts with specialized organizations that exclusively carry out this activity. Thus, in 2025, a contract was concluded

Every Andijan State Technical Institute building has a separate waste and clean water (rainwater) sewage system. As a result, rainwater is gathered from building rooftops and released into nearby ponds and canals surrounding the structures. Additionally, the university has buildings where all of the rainwater is collected and used for interior plant watering and toilet flushing.

Andijan State Technical Institute has a policy on preventing and reducing river and channel pollution of all kinds, in particular from land-based activities. For example, the urban forest is maintained by an institution in the new city, which is built in a suburban area called Andijan CITY.

According to the decision of the Cabinet of Ministers No. 981 of December 11, 2019, it defines the procedure for determining the water protection and sanitary protection zones of water bodies in the territory of the Republic of Uzbekistan, as well as for conducting business in them, determines the working regime in order to prevent the pollution of the territories, the shortage of water resources, the effective use of water bodies and the rational use of water resources.

Waste management containing hazardous and toxic materials has also been improved. In addition, Rector of Andijan Andijan State Technical Institute provide some policies to support water system pollution such as:

1. Rector Decree Letter about the policy of decreasing paper and plastic use

2. Rector Decree Letter about Zero Plastic program

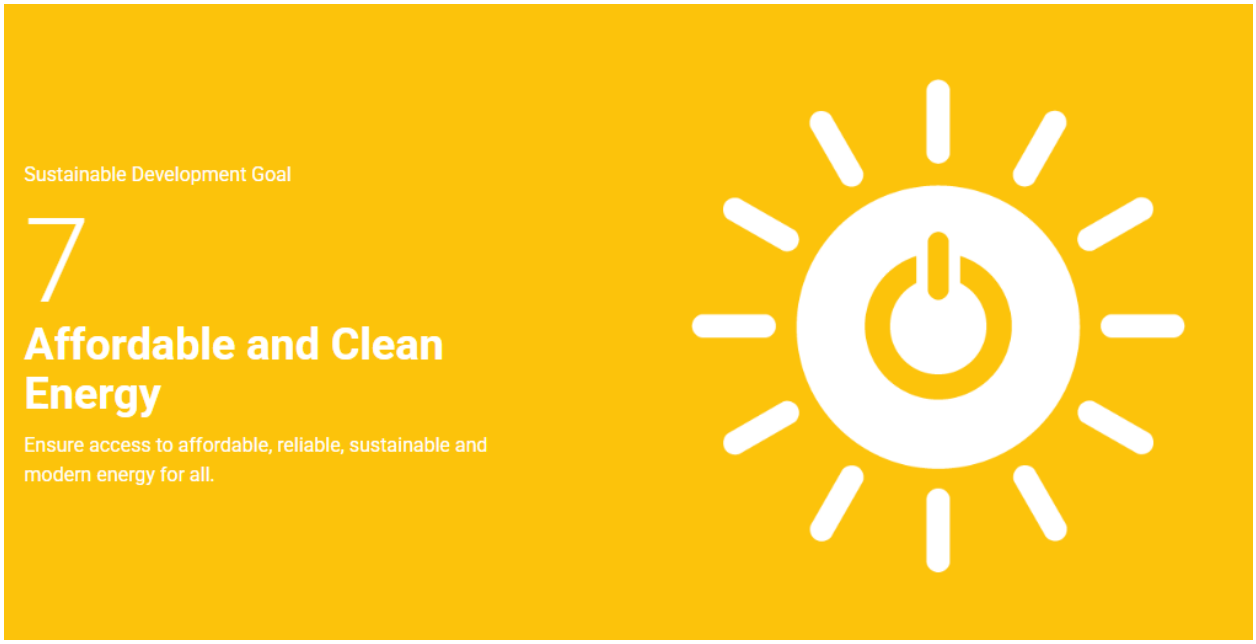
Wastewater Treatment

Andijan State Technical Institute has a system to prevent polluted water to enter the water system by using wastewater management and microfilter.

Andijan State Technical Institute has a wastewater treatment. The Institute recycled its domestic wastewater to be ready to use by utilizing the domestic wastewater treatment plant. The recycled water is streamed to infiltration wells, which then can be used as reserved water resources. It can reserve water with the capacity of 12 m3/day.

	
Wastewater treatment (Andijan State Technical Institute**)**	**Filter for purifying dirty water (**Andijan State Technical Institute**)**

Proper wastewater disposal is critical to protecting public health, preventing environmental pollution and preserving clean water resources.



7. Enabling All for Sustainable Energy Access by their Ability

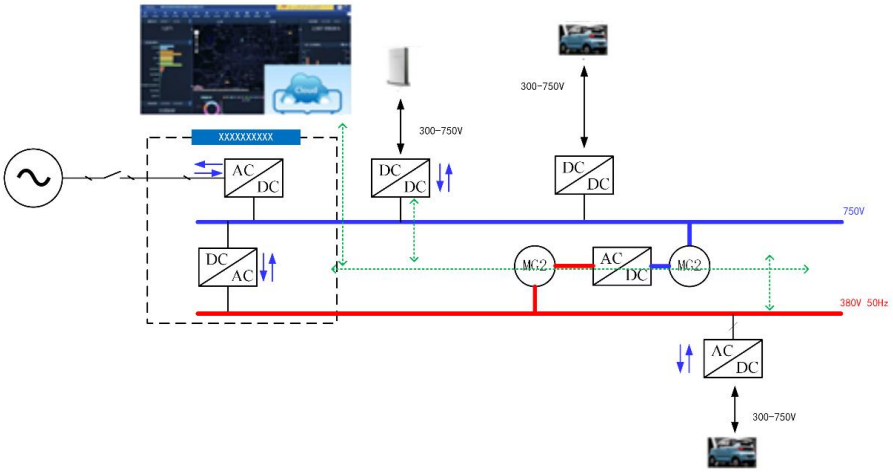
Andijan State Technical Institute has set out its policy for Green Office to create the society with good environment for the well-being society and the model office for environmental management. The university therefore issued the ANDMI Announcement (Revised Edition) on Energy-saving Measures on 26 July 2021 that covered the saving measures for electricity, water, oil fuel, and office supply, including the measure for meeting arrangement and exhibition, the measure for 5s cleanliness, the measure for waste management, the measure for eco- friendly procurement and service, the measure for safety and emergency, and the measure for green spaces. These measures are believed to supervise and control the energy consumption at Office of the institute in an effective way along with the systematic energy management and maximum benefits.

The Energy Research and Development Institute

Together with the Andijan regional government, procuratorate, regional electric networks employees, and teachers of the Andijan State Technical Institute, enterprises with large capacity, pumping stations, and electric networks in the Andijan region were studied, and the deficiencies and causes of energy loss discovered as a result of the studies were investigated, and scientific solutions were provided by professors and teachers. Professors and teachers at the Andijan State Technical Institute created and implemented an online monitoring device for transformer station. The gadget alerts the engineer on duty to any negative events at the transformer station, preventing energy losses and transformer damage.

Scientific projects are being carried out in collaboration with the Andijan State Technical Institute and North China University to optimize the electrical supply system with renewable energy. The project's purpose is to prevent the waste of energy resources, hence reducing the amount of dangerous gases discharged into the atmosphere.

The following figure shows the block scheme of the ongoing joint project.

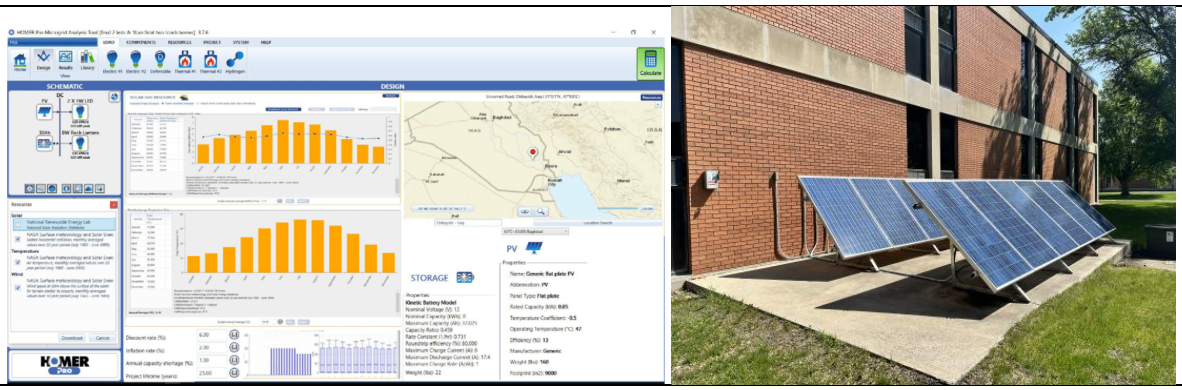


Andijan State Technical Institute attaches special importance to the use of renewable energy sources.

Benefits of Renewable Energy on Campus:
Cost Savings: Reduces utility costs over time.
Environmental Impact: Lowers greenhouse gas emissions and promotes sustainability.
Educational Opportunities: Provides a hands-on learning environment for students studying renewable energy and sustainability.
Community Engagement: Involves students and staff in sustainability initiatives, fostering a culture of environmental stewardship

Planning, implementation, monitoring and/or evaluation of all programs related to Energy and Climate Change through the utilization of Information and Communication Technology (ICT)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Assess potential for renewable energy installations	GIS mapping, renewable energy simulation software	Feasibility studies, site assessment reports	Jan 2023 - Apr 2023	Energy Management, ICT Dept
Implementation	Install solar panels, wind turbines, etc.	Project management tools, installation scheduling software	Installation logs, energy generation data	May 2023 - Dec 2023	Facility Management, Energy Dept
Monitoring	Track renewable energy production	Renewable energy monitoring systems	Energy production reports, performance analytics	Ongoing	Energy Management, ICT Dept



Renewable energy simulation software and installation of renewable energy

The "Efficient Energy Use and Climate Change Impact" area (21%) includes 16 indicators, such as the use of energy-efficient appliances, renewable energy sources, total annual electricity consumption (kWh), and others.

The institute is successfully implementing energy efficiency and resource conservation programs. Meters are installed in all buildings, and their data is sent monthly to the Department of General Management and the accounting department, allowing for an analysis of the water and energy consumption of each individual building on the campus. Furthermore, work is underway to analyze data in the management dashboard to identify weaknesses and subsequently address and improve them.

Work to modernize lighting in the institute's buildings continues. At the Andijan State Technical Institute, scheduled and preventive maintenance is being carried out to improve energy efficiency, thereby enhancing energy savings and building safety.

Energy-saving light bulbs should be installed in every building. All the buildings of the institute use energy-saving LED light bulbs, and sensor light bulbs are installed in places such as the entrance to the stairs

Andijan State Technical Institute was approved to participate in the Project of Integrated Socio-Economic Modernization of Districts and Andijan Region for the economic restoration of the community and the development of new professions within the communities.

The project covers 4 aspects

Aspect 1: Honest livelihood development and job creation

Aspect 2: Creation and development of creative economy

Aspect 3: Applying knowledge to public health

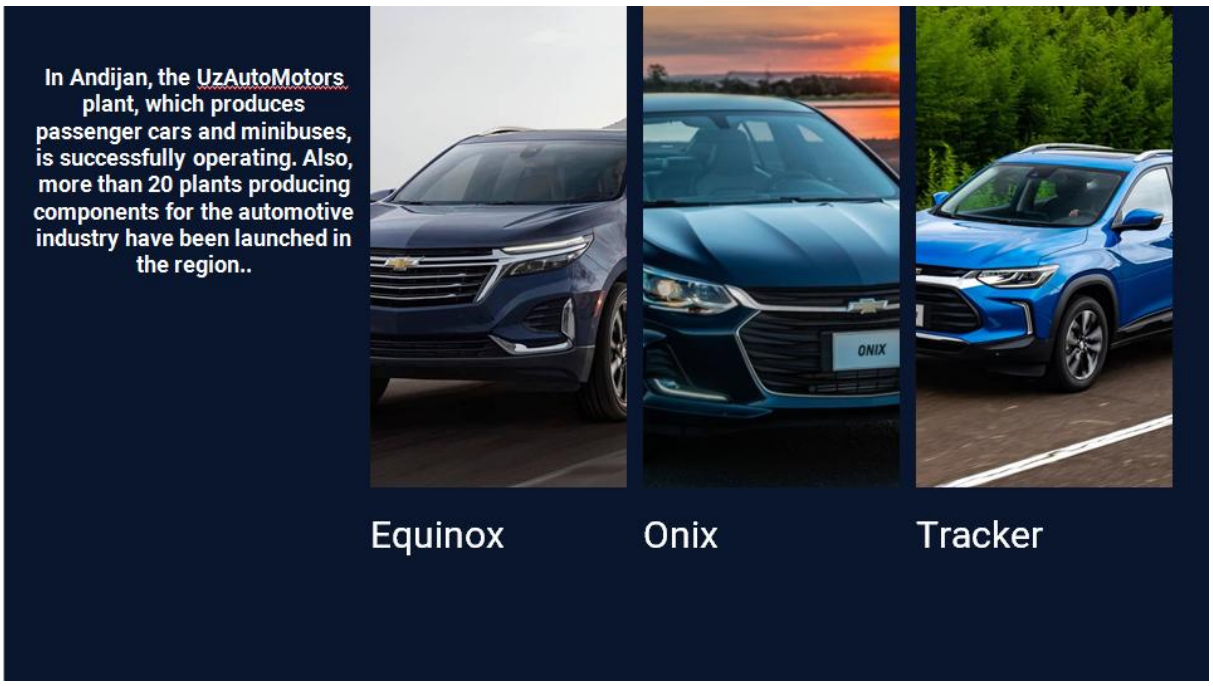
Aspect 4: Environmental advocacy and area-specific circular economics.

This project was under collaborations with lecturers and researchers from 6 faculties/divisions to apply their knowledge, experience, and expertise for the target areas, whether the product development,

standardization, product processing, marketing development or platforms to be used in the future. Besides, Andijan State Technical Institute has set the policies and guidelines to support and continue the local development in need of knowledge for continuous implementations. It actually focuses on the creation of learning process for local people to continue their implementations whereas the internal budget allocation is made to support such operations to achieve the goals and objectives of the project

The Departments of Automobile Engineering, Mechanical Engineering Technology, Economics and others in AndMI organize the "Science ANDMI Online Job Fair 2021" on the online platform via Facebook Live every year. Various activities such as a seminar on "Application for Work and Life after Graduation", introduction to manufacturing enterprises, commercial institutions, job openings and co-education/training positions from leading companies, and interview instructions are held via Zoom application to promote employment opportunities among students and access information on labor markets suitable for their professional disciplines. At the institute, such meetings were held by UzAUTO Motors Plant, UzTONG Hong, Finance Department and other organizations in 2024.

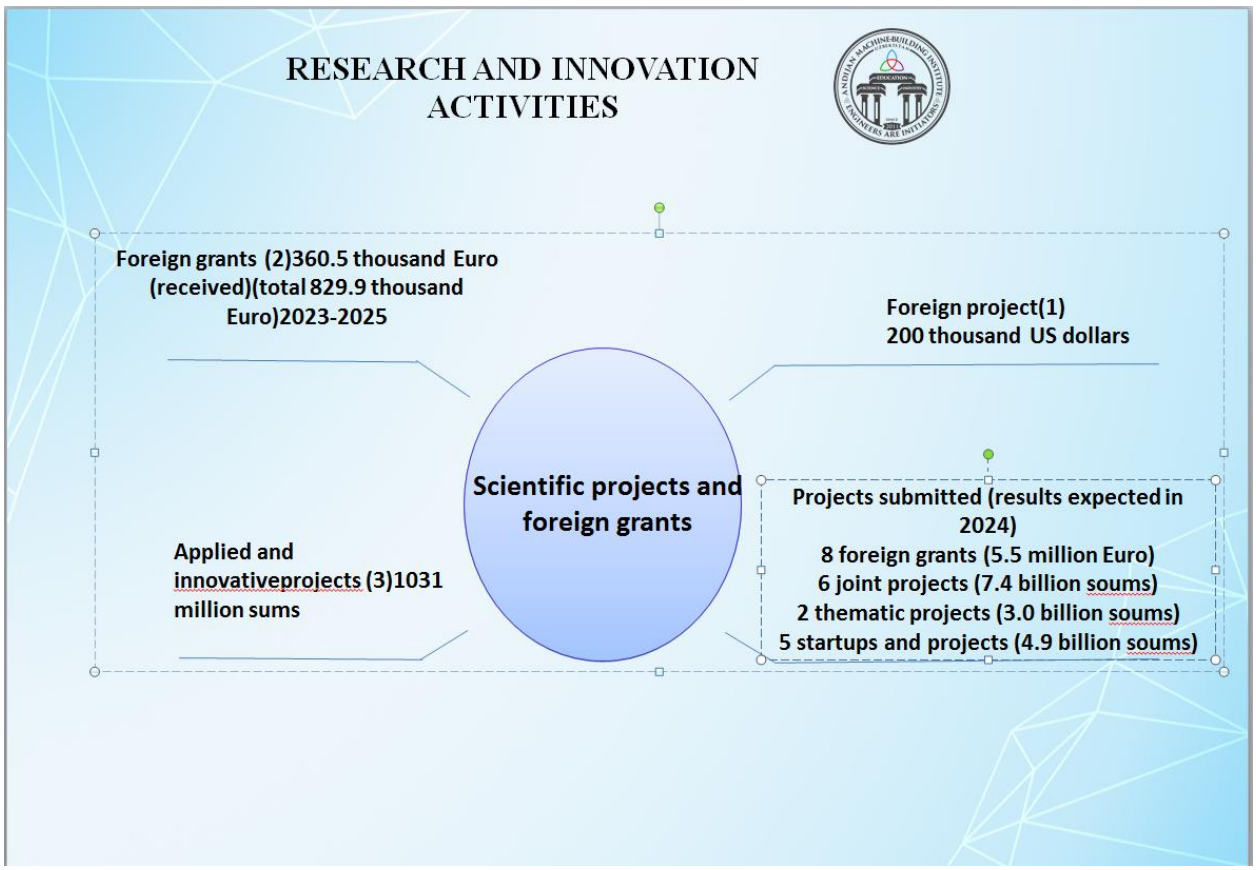
Andijan State Technical Institute **is located in the industrial region - in Andijan.** Andijan is a large industrial region, where more than 100 related enterprises of the automobile industry are located.



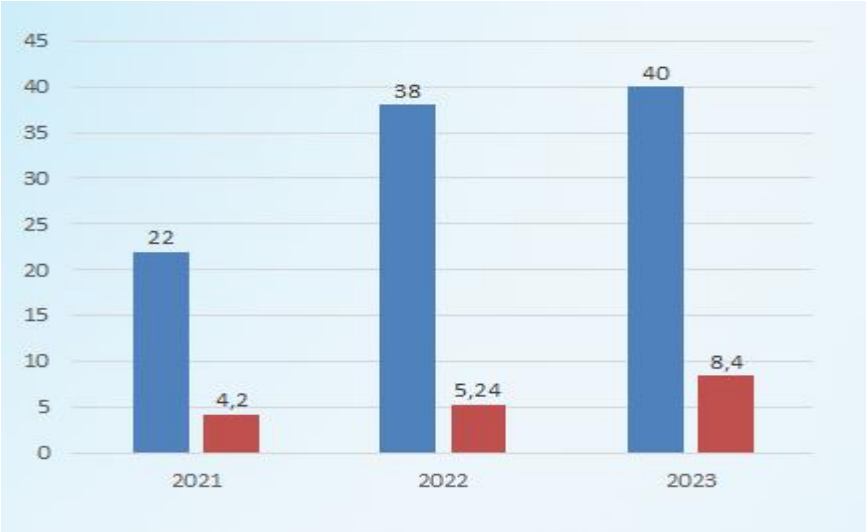
To train specialists for the industry and ensure the quality of the graduated personnel, Andijan State Technical Institute cooperates with large industrial enterprises of the region.

Within the framework of cooperation, scientific research work is carried out by the institute's scientists. Scientific research projects are carried out at the expense of the innovation fund of the Ministry of Higher Education, Science and Innovation, at the expense of foreign grants, as well as according to industry orders from enterprises of the republic.

Research and Development Information for 2023 and Plan for 2024



Information on projects and funds involved through state and foreign grants, as well as industry orders*



*- - number of projects through government, foreign grants and industry orders

- amount of funds involved, billion soums

The **Setting and Infrastructure (SI)** category focuses on creating a sustainable campus environment through thoughtful design, efficient use of resources, and eco-friendly infrastructure. This includes developing green spaces, energy-efficient buildings, and integrated waste and water management systems. Key initiatives under SI aim to reduce environmental impact and enhance campus livability.

Green Campus Design: Incorporating open spaces, native plants, and environmentally friendly landscaping to support biodiversity and improve air quality.

Sustainable Building Practices: Constructing and retrofitting buildings with eco-friendly materials and energy-efficient designs to reduce resource consumption.

Water Conservation and Management: Implementing water-saving technologies, rainwater harvesting, and efficient irrigation systems to conserve water and support sustainability goals.

Waste Management Systems: Establishing recycling, composting, and waste reduction programs to minimize campus waste and encourage responsible disposal practices.

Renewable Energy Integration: Utilizing renewable energy sources, such as solar panels and wind turbines, to decrease dependence on fossil fuels and reduce greenhouse gas emissions.

By focusing on sustainable infrastructure, the SI category enhances the quality of campus life while reducing the environmental footprint. This approach fosters a resilient and eco-conscious community, supporting long-term sustainability goals.

Improving the institute's infrastructure,

taking into account various aspects of this issue

When improving the institute's infrastructure, the goal was not to improve the indicators in this area, but to improve the actual condition of the campus itself.

The main campus buildings underwent major renovations in 2025. A total of 2.26 billion soums (US$186,018) was spent on renovations to the first building (US$670 million), the student residence building (US$920 million), and the second building (US$670 million). Landscaping of the main campus grounds cost 300 million soums (US$24,693). In particular:

- Both the interior and exterior of the buildings were renovated in accordance with standard repairs;

- During the renovation, the building walls were covered with thermal insulation material, taking into account the abnormal heat in summer and the abnormal cold in winter. It is worth noting that this type of coating was used for the first time in the history of the institute;

- The paving stones at the entrances to the main building were completely replaced, taking into account the ease of walking on the paving stones, especially considering the icy conditions in winter;

- Amenities were created for students, institute staff, and all visitors: comfortable benches were installed in the renovated areas, and a fountain was built to increase humidity and protect against heat. One aspect of achieving this goal is increasing the amount of green space on campus. On the main campus, this issue was addressed as part of the renovation of the main campus buildings. First, the existing lawns in this area, near the fountain, were expanded. Second, various trees were planted on the expanded lawns, including spruce, juniper, and other ornamental plants. The existing chestnut and pine trees were also preserved. The lawns in this area covered 28.5 square meters before the expansion.

The calculation was as follows:

Lawns under one chestnut tree: 1 m * 1 m = 1.0 m2

6 chestnut trees with lawns: 8 * 1.0 = 8.0 m2

In addition, there were lawns under pine trees: 1.5 m2 * 15 meters = 22.5 m2

Total: 8 + 22.5 = 30.5 m2

After widening, the paving stones between the trees were removed and replaced with lawns. This resulted in an expansion of the existing lawns:

2 lawns measuring 4 * 10 = 40 m2 under chestnut trees, 2 lawns measuring 4 * 8 = 32 m2 under chestnut trees, and 1 lawn under pine trees with an area of 2.5 * 18 = 45 m2. Total:

40 + 32 + 45 = 117 m2

Therefore, after the expansion, the total lawn area on the renovated portion of the main campus is 117 m2, which is almost four times larger than the previous lawn:

117 / 30.5 = 3.84 times

Furthermore, the number of new ornamental tree saplings (on the lawns) in this same area is 12.

The process of expanding the lawns and planting new ornamental tree saplings is shown in the following photos:

I'd especially like to highlight the improvements to living conditions on the main campus. As mentioned above, during the renovations, the building walls were covered with thermal insulation material to address the unusually hot summers and unusually cold winters.

New restrooms for women and men were built. Construction was carried out during the summer holidays. For these purposes, funds in the amount of 980 million soums, which is equal to 80,663

US dollars, have been allocated. The following points were taken into account during the restroom construction:

- Separate stalls with all necessary facilities for individuals with disabilities;

- Availability of hot and cold water;

- Sufficient number of separate stalls and adequate facilities;

- Retention of heat in winter and coolness in summer;

- All sanitary and hygienic conditions;

It should be noted that the relevant requirements for accessibility for individuals with disabilities were taken into account during construction and renovation. Ramps were built at the entrances to the buildings and restrooms.

At the end of 2024, a grass stadium with a standard area of (60 * 40) * 2 = 4,800 m² was built on the territory behind the main building, replacing the standard stadium.

There are two grass stadiums, meaning the total area is 4,800 m². Thus, the additional area covered by vegetation on the main campus was 117 + 4800 = 4917 m2.

Campus open space, not occupied by buildings and forested areas, includes the area around the main building and other academic buildings. This primarily includes paved and concrete roads and playgrounds. In 2024, open campus space without vegetation occupied 11,870.0 m2, which was more than 30% (11,870.0 / 39,343.42 m2). Taking into account the expansion of lawns and the construction of two stadiums with lawns, the area covered by vegetation has expanded. The old area was: Flower area, gardens, parks, and landscaped areas: 2983.47 m2; After the expansion:

Flower area, gardens, parks, and landscaped areas: 7900.47 m2.

The open space, in part, of the paved and concreted portion, has decreased, while the area covered by vegetation has increased. The paved and concreted portion is 11,870 – 4,917 = 6,953 m2, while the gardens and open green area total 7,900.47 m2.

Therefore, the area with buildings is 24,489.95 m2. Open space is 14,853.47 m2. The ratio is 37.75%.

The most important news for the 2024-2025 academic year is the construction of a new building for administration and student housing near the main campus. A new student dormitory, compliant with sustainable development standards, is nearing completion on this site. The project incorporates sustainable environmental management, eco-friendly processes, as well as modern mechanisms and techniques for modularity, functionality, adaptability, variability, and much more. It's worth noting that the Andijan Institute of Economics and Construction, located on Navoi Avenue, has been merged with the institute. This has increased the number of campuses and the institute's total area. The Navoi campus of Andijan State Technical Institute is located at 15/a Navoi Avenue, Andijan. Its total area is 34,839.19 m². There are 283 mature trees on this campus.

The Andijan State Technical Institute features a diverse campus landscape that promotes water absorption and effective rainwater management. In addition to the existing forested areas and planted vegetation, the campus includes permeable pathways, grassy lawns, and natural drainage features that enhance groundwater recharge. These areas are strategically designed to capture and retain rainwater, reducing runoff and supporting local ecosystems. By integrating green infrastructure, the campus not only improves water management but also enhances the aesthetic appeal and environmental quality of the institute.

The infrastructure of Andijan State technical Institute takes into account the creation of amenities for people who visit the institute. Facilities for people with disabilities

Accessible entrances: All main entrances are wheelchair accessible, equipped with ramps and automatic doors.

Elevators: Equipped with accessible elevators in all buildings to facilitate movement between floors.

Restrooms: Accessible restrooms are available throughout the campus, designed for ease of use.

Assistive technology: Access to assistive devices and technology in classrooms and computer labs.

Dedicated parking: Accessible parking spaces located near building entrances.

5 programs: Strengthening ASTI's position and moving to a new stage of sustainable development

The TECHNO PARK of the Andijan region, which is located on the territory of the second campus of the Institute, and the Andijan Engineering Institute jointly carry out activities to introduce knowledge about technology and university infrastructure for maximum benefit to people, communities and society on a large scale. through 5 ASTI programs called "Strength to Strengthen and Transition to a New Normal." These five programs are being implemented to model this mechanism in collaboration with other mechanisms to create people and leaders of a new era, employment opportunities, income and solutions in all areas, as well as social and economic development to ensure the sustainability of local development.

Program 1: ASTI Local Engagement Plug & Play

Program 2: Training and working with ANDMI

Program 3: Launch ASTI

Program 4: ANSTI Know-how for everyone

Program 5: ASTI Pilot plant for the creation of an additional

Roles of Andijan State Technical Institute in Driving Equality in Education, Economy and Society

Andijan State Technical Institute promotes equality in education, economy and society by expanding opportunities and reducing educational inequality. The university aims to support and encourage those with special skills to have the opportunity to develop their existing potential. They will have the opportunity to apply their knowledge and skills in particular fields through various projects, including:

1) Joint Project to Increase Biomedical Engineering Training

2) Higher Education Opportunities for Well-Behaved

Students

3) Scholarships for Low-Income Students with Excellent Academic

4) Scholarships for Hill Tribe Students

5) Higher Education Opportunities for Student Athletes

6) Higher Education Opportunities for Social Thinkers

The Institute has created a system of support and accompaniment of students, covering the main range of problems that they may encounter at various stages of education. The Institute has structural units and public organizations that provide support for solving students' problems and are engaged in solving identified problems. Such organizations include the Trade Union Committee of Students and Employees of the Institute, the Association of Gifted Students, the Youth Union, the Department of Work with Gifted Students at the Scientific Department of the Institute. The psychological center assists students with low motivation to study, with problems of interpersonal communication.

All organizations and structures providing advisory services operate within the framework of the law on the protection of personal data on the principles of confidentiality. The existing system of support and accompaniment of students as a whole ensures the satisfaction of the needs and requirements of students. The Institute monitors the needs and requirements of students, on the basis of which work is underway to improve the system of support and accompaniment of students, including production meetings for first-year students on the organization of the educational process, meetings with those living in dormitories. Monitoring of the needs of students with disabilities and disabilities is carried out through full-time and remote counselling. In the 2021/2022 academic year, 48 students with various health conditions study at the institute. Traditionally, advisory support for them is provided in an individual or group format, and is carried out at the request of students. On average, during the academic year by a specialist in social work, tutors and other specialists of the social center carry out at least **700** consultations in group and individual formats.

All categories of students on a budgetary basis have the opportunity to receive scholarship payments. For students with a low financial situation, a system of social scholarship payments has been developed. Successfully mastering educational programs receive an academic scholarship that shows outstanding achievements in studies, science, sports, creativity, social activities - receive an increased state scholarship and are nominated for additional material incentives in

the form of scholarships, awards, grants from various structures of public organizations and foundations. So, in recent years, the institute has introduced a system for organizing the participation of students in the competition for personal scholarships. Personal scholarships are dedicated to the rector of the institute and outstanding scientists of the republic. For example, scholarships named after Doctor of Economic Sciences, Professor T.K. Iminov, Doctor of Technical Sciences, Professor M. Khadzhinova and other honored scientists of the country.

Those in dire need of financial support may qualify for material assistance. Students on an extrabudgetary basis who have achieved excellent results can also apply for material incentives from the extrabudgetary funds of the institute.

Information about students who have received support in the last 2 years

academic year	Number of students supported	Including						
		provision of student dormitory on a preferential basis			Employment of low-income students and non-students		Free training on short-term professional courses	
		Number of students with 50% discount	Number of students with 100% discount		Total	Including students	Total	Including students with limited new opportunities
			Total	Including students with limited new opportunities				
2022-2023	49	30	10	8	8	3	1	1
2023-2024	67	53	11	9	2	1	1	1
всего	116	83	21	17	10	4	2	2

Information about students who have received support over the past 3 years

years	Number of students supported	Including,		
		Those who received simultaneous financial assistance	Provided with scholarships Rector scholarship	Other types of support

		quantity	sum	quantity	sum	quantity	sum
2022	33	21	10875480	12	31072800		
2023	12			12	31072800		
2024	19	7	8545260	12	31072800		
Total	**64**	**28**	**19420740**	**36**	**93218400**		

Information about the Campus, as well as the procedure for providing accommodation and settlement in the student hostel, the rules of residence in the hostel are posted on the institute's website. For students with material difficulties, a system of financial support has been developed: reducing the cost of education, reducing the cost of living in the hostel. Orphan students and students with disabilities have additional benefits and financial payments. (Regulations on the provision of material assistance to students, Regulations on the commission for work with orphan students in ASTI).

All students have the opportunity to get acquainted with the procedure for appointing and paying scholarships and other incentives on the official website of the HEI or during an individual consultation. It should also be emphasized that starting from 2019, on a preferential basis, at the expense of a state grant, students are accepted to study, athletes who have a certain merit in sports. So, among them there are champions of the world, Central Asia or the republic. To participate in competitions, trained athletes undergo an additional medical examination. To carry out practical activities in medical organizations, students undergo a medical examination, the results of which are reflected in their personal medical record. The health center is engaged in supporting the preservation of health and preventing diseases, including students from among the invalids.

Every year, all students undergo medical examinations, periodic medical examinations, as well as vaccination free of charge in accordance with the approved National Vaccination Calendar.

In order to increase responsibility for the preservation of one's own health and build an individual trajectory of personal development, the institute supports social initiatives and projects of students to form a healthy lifestyle, increase communicative competence and stress resistance. Various categories of students are supported by social scholarships, including 48 people with disabilities who receive social scholarships (an additional payment of 50% of the scholarship amount is made; orphans - 7 people (there were 20, of which 13 were transferred to

the correspondence department); with a difficult financial situation - thirteen.

It should be especially emphasized that there are currently 146 students studying in the Master's program, of which 45 are girls. All girls studying in the Master's program study at the Institute at the expense of state funds, that is, without paying a contract for training.

Information about students studying in the Master's program

student course	Total number of students	Including the number of girls studying for free	
		the number	share, %
1	**86**	**31**	**36**
2	**60**	**14**	**23**
total	**146**	**45**	**31**

The concept of sustainable cities and communities includes four key dimensions:

1. Sustainable cities and communities are environmentally sustainable.

2. Sustainable cities and communities are resilient to social, economic and environmental shocks. They are well prepared to deal with natural disasters such as floods and hurricanes, which are often exacerbated by climate change.

3. Sustainable cities and communities are inclusive.

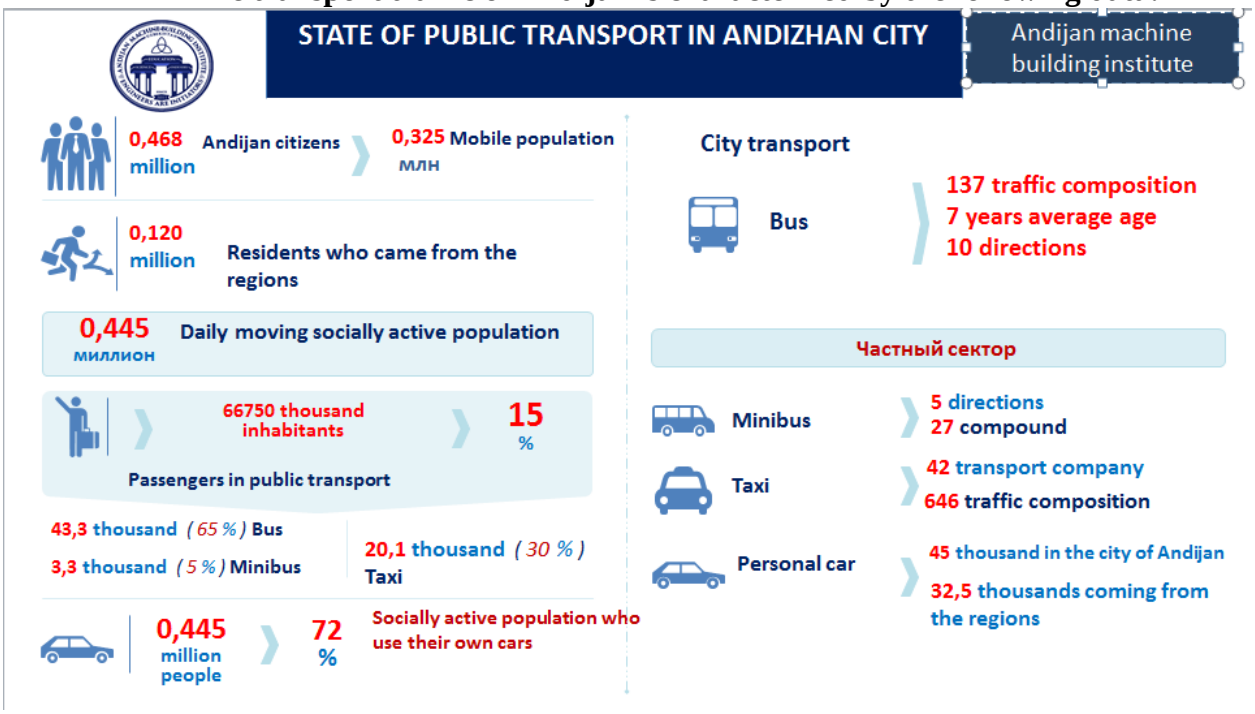
Their markets and services serve diverse sectors of society and groups of people, including the vulnerable and marginalized.

Andijan Region, where ASTI is located, is the easternmost region of Uzbekistan, occupying the eastern part of the Fergana Valley. The population of the region is 3,338,200 people (as of April 1, 2023). Of these, the city population is 1,742.5 thousand people, the rural population is 1,595.7 thousand people. Andijan Region is the smallest in area, but the most

densely populated in the country (almost 10% of the population of all of Uzbekistan, although its area is less than 1% of the entire republic).

- The length of railways in the region is 226.8 km. The Angren-Pap-Andijan railway passes through the region, connecting the Fergana Valley with the Tashkent region [5].
- The railway lines Andijan - Margilan (Fergana), Andijan - Namangan, Andijan-Khanabad, Andijan - Tash-Kumyr (Kyrgyzstan), Andijan - Jalal-Abad/Osh (Kyrgyzstan) make the center of the region a major transport hub of Central Asia.
- The length of motorways is more than 2463 km. There are regular flights to cities in Uzbekistan and the CIS, as well as to other countries (depending on commercial demand).

The transport traffic of Andijan is characterized by the following data:



Taking into account the above-mentioned features of Andijan, Andijan scientists are working on a research project to improve transport traffic in the Andijan region. Funding for this project amounts to 3 billion soums. The project started in 2023 and will continue through 2025.

Table 1. Key indicators in the "Environment and Infrastructure" direction

Name / *Indicators*	*Main campus* (m^2)	*Navoiy ampus* (m^2)	*Automotive Engineering campus* (m^2)	*Technology campus* (m^2)	*Sharda University campus* (m^2)	*Andijan City* (m^2)	**Total (m^2)**
Buildings area (m^2)	24489.95	9935.5	20438.49	14443.8	4025.46		73333.2
Flower/garden area (m^2)	5500.47	12500	14841.64	2894.4	22615.99	11600	69952.5
Asphalt/concrete surface area (m^2)	3084.333	4134.563	4214.477	1102.2	3769.33		16304.9
Water absorption	6168.667	8269.127	8428.953	445	7538.66		30850.41
Total (m^2)	39343.42	34839.19	47923.56	18785.44	37949.44	11600	**190441.1**

Consumption and production around the world – the driving force behind the global economy – are based on using the natural environment and resources in ways that continue to have a de Sustainable consumption and production aims to produce more with less.

This goal takes into account the balance between economic growth and environmental degradation, improving resource efficiency and promoting more sustainable lifestyles.structive impact on the planet.

This relationship is demonstrated by the fact that toxic waste treatment refers to the processes used to safely manage and neutralize hazardous waste that poses a significant risk to human health, wildlife, and the environment. Toxic waste typically includes chemicals, heavy metals, radioactive substances, and other hazardous compounds produced by industry, hospitals, research laboratories, and households.

The treatment of such waste involves several methods:

Identification and Classification

• Toxic waste is first identified and classified according to its chemical composition, toxicity level, and physical state (solid, liquid, or gas). Proper classification is essential to determine the most appropriate treatment method.

Physical Treatment

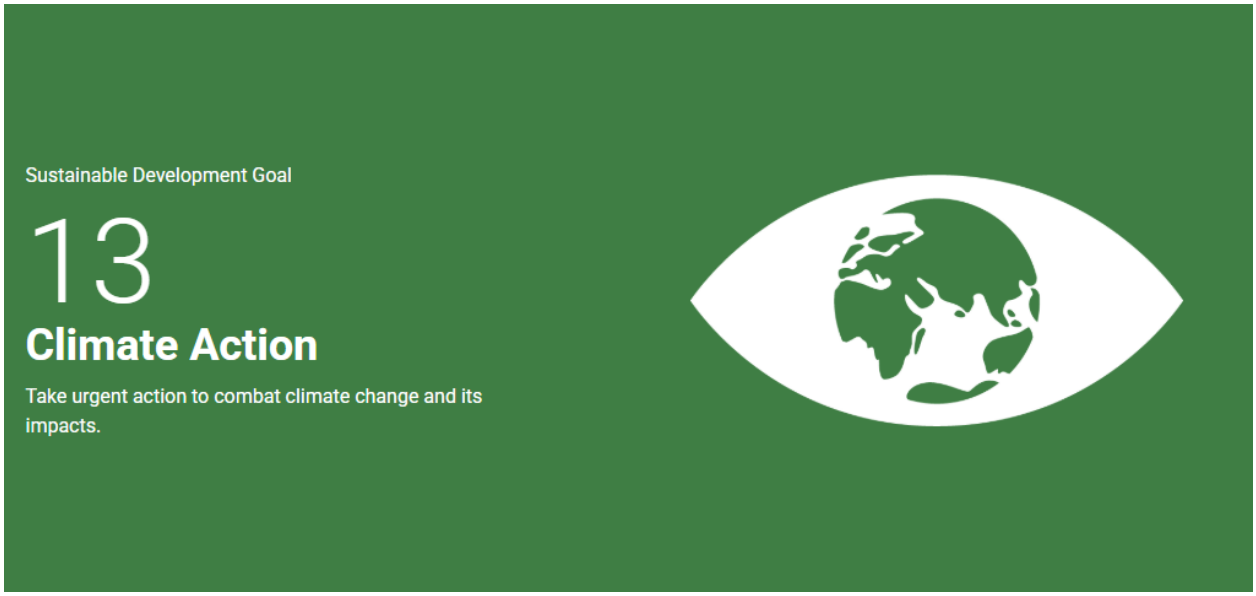
- Filtration: Solids are separated from liquids using filters.
- Sedimentation: Allows solids to settle at the bottom of tanks for removal.

- Distillation: Volatile compounds are separated based on their boiling points.

Chemical Treatment

- Neutralization: Acids or bases in toxic waste are treated with alkaline or acidic chemicals to neutralize them.
- Oxidation and Reduction: Harmful substances are chemically transformed into less toxic or non-toxic forms. For example, toxic metals can be converted into less harmful states using reducing agents.
- Precipitation: Chemicals are added to wastewater to form solid precipitates, which can then be removed.

Thus, this approach is the basis of scientific research projects, professors-doctors, conducting research in materials science and technologies of new materials. The use of composite materials, nanomaterials in the automotive industry are possible topics of scientific research.



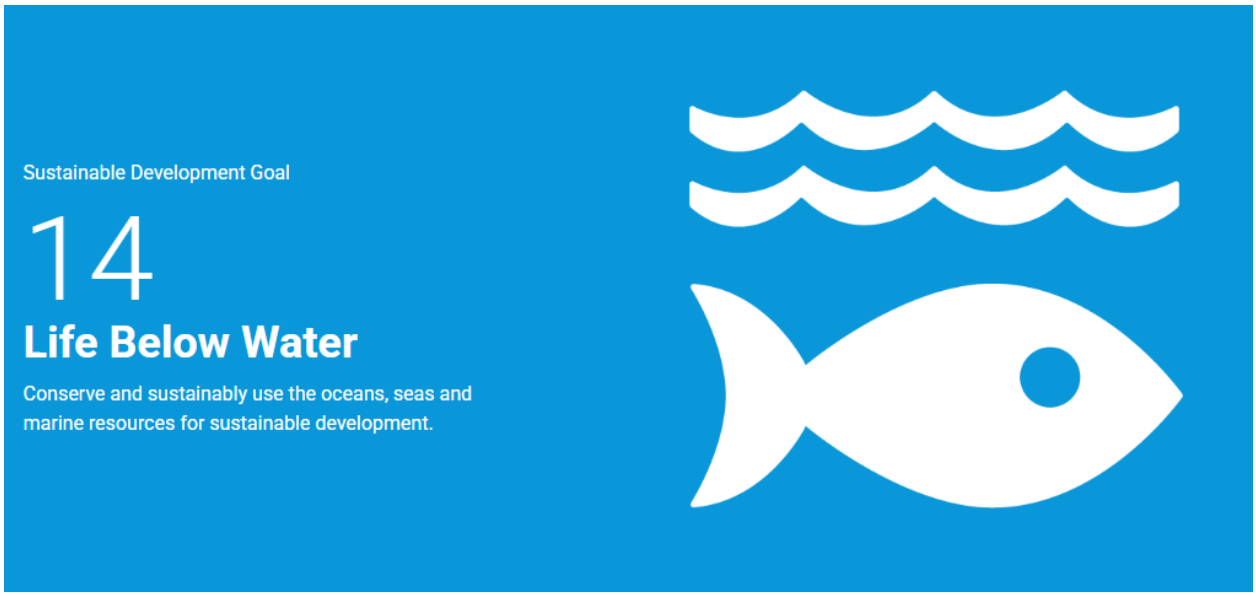
Climate change is the most serious crisis of our time:

- Global warming
- Food and water insecurity
- New extremes

The scientific evidence that climate change is undeniable also shows that it can still be reversed. This will require fundamental changes in every aspect of society – the way we grow food, use land, transport goods, and produce energy in our countries.

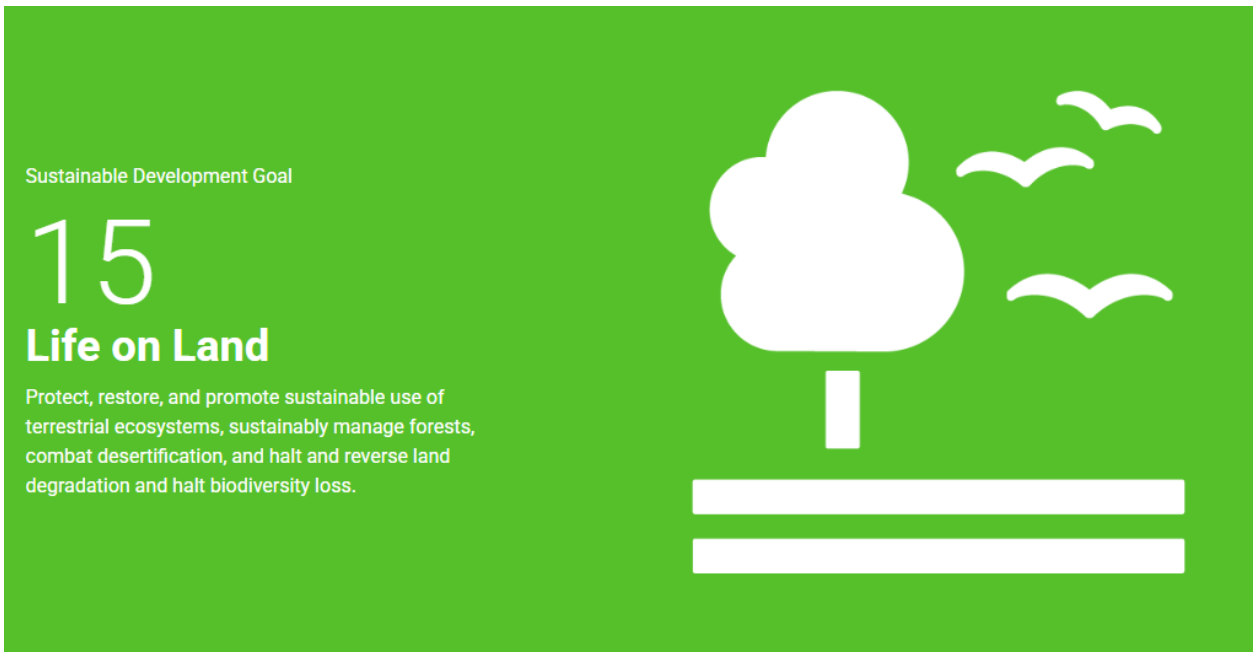
While technology is driving climate change, new and efficient technologies can help us reduce net emissions and create a greener planet.

At the same time, the Andijan region is a seismically active zone prone to earthquakes.Taking into account these problems and the possibilities of their solution, a program to combat climate change is being implemented at the Andijan Machine-Building Institute. Thus, the topics of scientific research of doctoral students are determined taking into account the regional characteristics of the region and the serious threat of climate change on production technology. Thus, research is being conducted on the topics of "Characteristics of the adhesive strength of composite polymer material in mechanical engineering and the technology of obtaining coatings based on them", "Optimization of the parameters of the production process of the cooling system of internal combustion engines of cars" and "Improvement of the technology of disinfection of grain from pests of grain stocks using ultra-high-frequency radiation".



Many universities around the world conduct research in the field of ocean sciences: marine research and education is one of the three areas of activity of the institute. For example, some universities aim to use their research as an opportunity to influence decision makers at the national and international levels and inspire people to take action to ensure the protection of our oceans.

The problem of life under water is not only a problem for the oceans, but also for the rivers and lakes located in the Andijan region. Water pollution affects the productivity of fish farms. This is what affects the health of the population of Andijan, most of whom suffer from endocrine diseases. In connection with such environmental problems, the institute created the Department of Life Safety. Water safety is one of the current research topics of this department.



In human life, the earth's ecosystems play an important role - they provide a place of rest for people and numerous resources of food, as well as psychological relaxation for people.

6 indicators of life on land and the tasks associated with them are set for this goal.

Of these tasks, two important ones are the focus of this program:

- ensure the accounting and preservation of the values of the biosystem;

- mobilize and significantly increase financial resources from all sources for the conservation and rational use of biological diversity and ecosystems.

Thus, on the territory of the main campus of the institute there are the following plant species, which are strictly accounted for and cared for:

- pine trees – 166 pcs.;

- juniper – 24 pcs.;

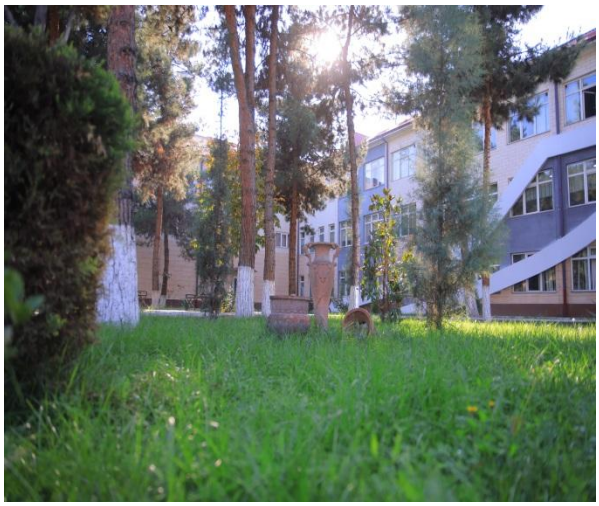
- polonia – 19 pcs.;

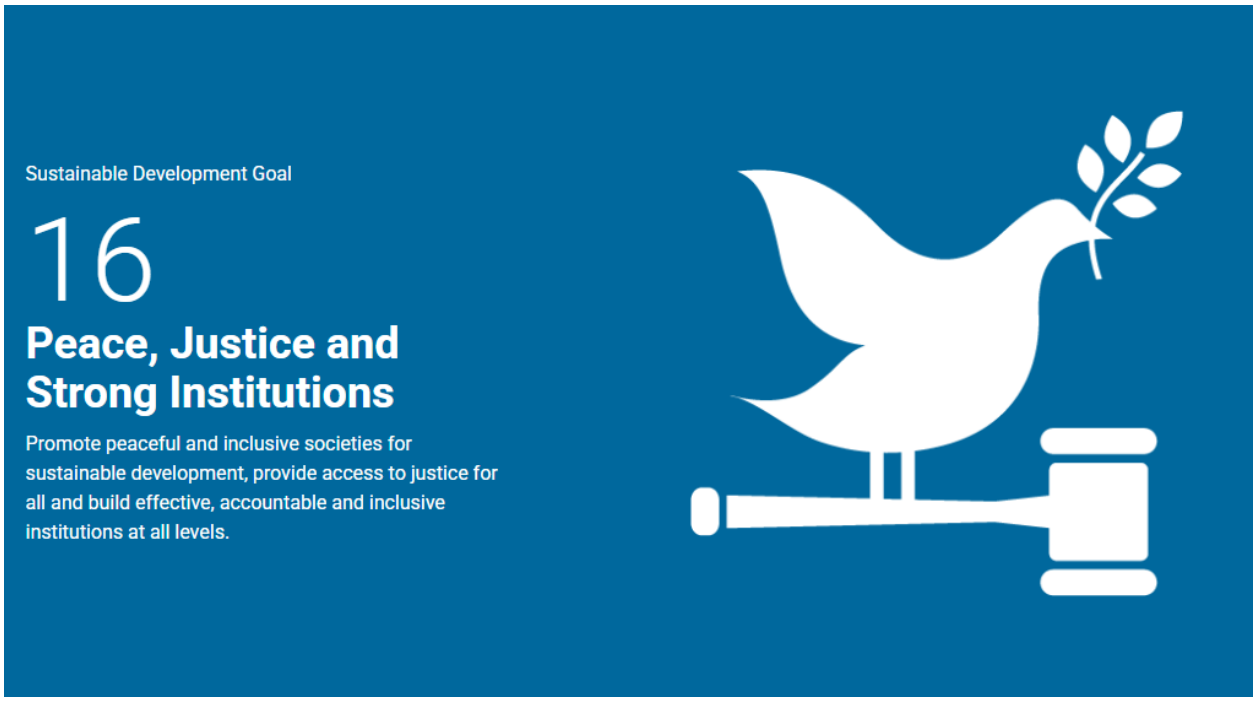
- chestnut trees – 8 pcs.;

- oak trees – 4 pcs. and others.

A total of 17 plant species are found only inside the campus.

Thus, the ecosystem at the institute is accounted for and stored.





"Andijan State technical Institute Summer Camp: A Research Trip"

A two-week summer camp is organized annually at the Andijan Engineering Institute

Purpose and objectives

The main goal of the summer camp is to enable students to learn new skills, interact with peers and coaches, and gain practical experience in technical and leadership activities, namely:

• Strengthening technical and engineering skills.

• Serving in the congregation and encouraging leadership.

• Impact on real world issues.

• Creating a platform for creativity and innovation.

The camp is divided into several modules:

A. Participated in a number of workshops and workshops on topics related to technical workshops on automotive diagnostics, * * robotics and advanced manufacturing technologies.

• Automotive Diagnostics Workshop: where

• 3D printing and SAPR design: A pr

• Robotics and Automation: C

B. Outdoor activities and collectivization

The camp hosts various outdoor activities aimed at improving teamwork, communication and leadership.

• Sporting events:

• Collectivization problems:

C. Soft Skills Classes

leadership, oratory and career development.

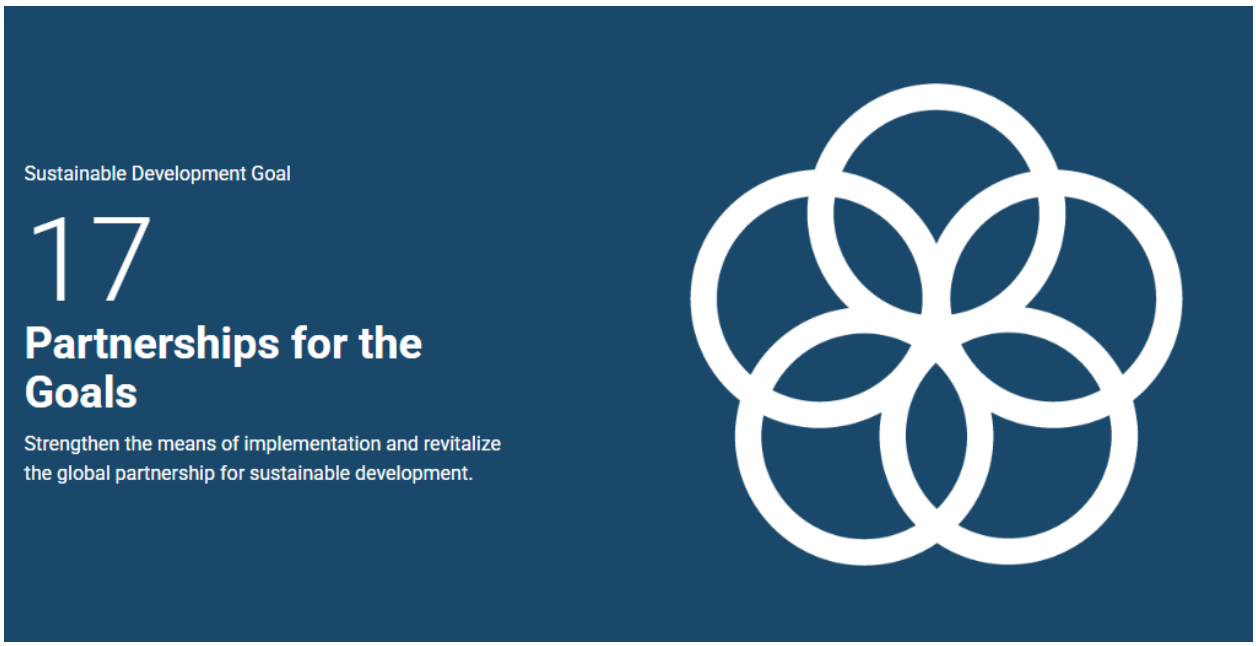
Training results

Summer holidays are going well.

• Advanced practical skills:

• Teamwork and leadership:

• Creative and critical thinking:



The Institute implements various programs in the field of sustainable development in two formats:

1. Development and implementation of specialized educational programs focused on environmental protection and human occupational safety.

2. Inclusion of universal modules on sustainable development in core educational programs.

3. In 2024, the institute offered educational programs related to sustainable development, such as "Alternative Energy Sources" and "Occupational Safety."

In 2024, the number of courses offered related to sustainable development reached 612. These courses include disciplines such as "Ecology" and "Environmental Protection."

To ensure the quality of education, significant attention is paid to three areas of academic and methodological work:

- Provision of educational and methodological literature;

- Faculty members undergoing international internships and advanced training;

- Involvement of renowned scholars from leading foreign universities in the educational process.

Thus, 37 textbooks and teaching aids were prepared and published under this standard in 2021, 55 in 2022, 83 in 2023, and 99 in 2024.

In 2021, 15 students underwent advanced training at foreign universities, 27 in 2022, 35 in 2023, and 56 in 2024. Over the course of five years, more than 300 professors and teachers completed internships abroad.

Information on the number of invited foreign scientists

2021	2022	2023	2024
31	41	82	51

Andijan State technical institute has strong relationships more than 100 foreign higher education institutions.

Creating conditions for international mobility of scientific personnel

The Institute pays special attention to the international mobility of scientific personnel. Over the past two years, that is, in 2023 and 2024, the process has intensified: a certain number of teachers were sent to leading foreign universities.

The following types of work were carried out in foreign universities:

1. Internship.

2. Participation in seminars.

3. Familiarization with educational programs and material base of universities.

4. Registration of documents for cooperation with specialized departments within the framework of educational and methodological and research activities.

5. Conducting lectures and practical classes in special disciplines in their field.

The tables below and the appendix provide more detailed information on these activities, the indicators used and the results.

Cooperation projects with international organizations operating in Uzbekistan

EMBASSY OF THE UNITED STATES TASHKENT

JICA

NRF National Research Foundation of Korea

KOICA Korea International Cooperation Agency

UNESCO United Nations Educational, Scientific and Cultural Organization

uniTwin

AMERICAN COUNCILS FOR INTERNATIONAL EDUCATION

Erasmus+

Huavia

TİKA

UNESCO

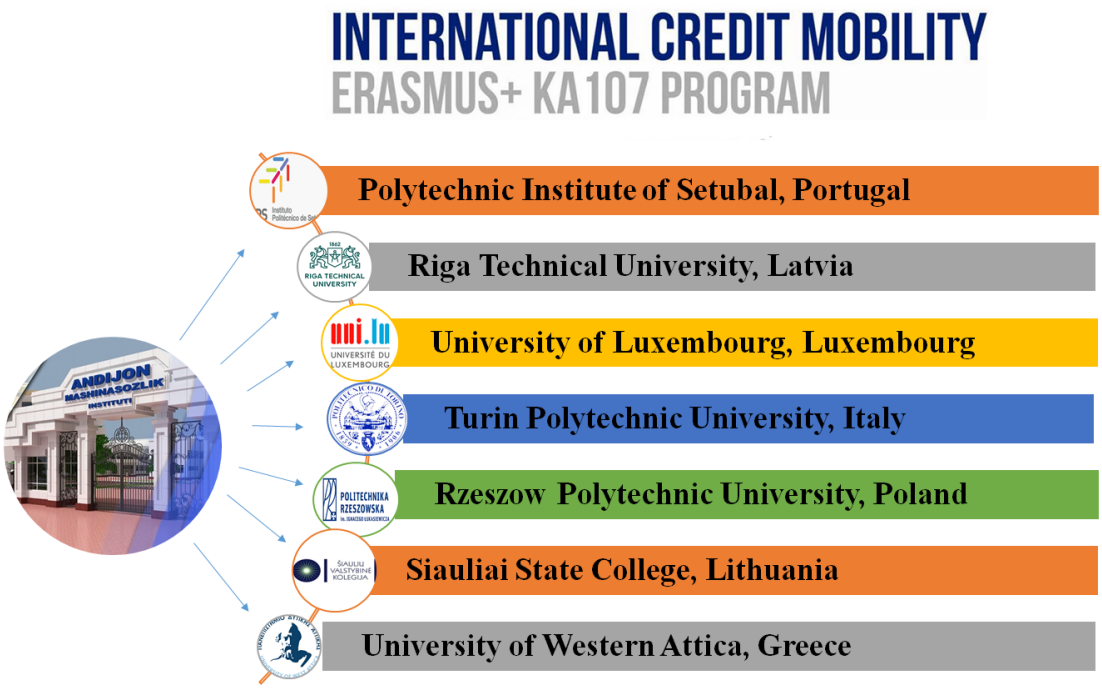
BRITISH COUNCIL

日本語 NAT-TEST
Japanese Language NAT-TEST

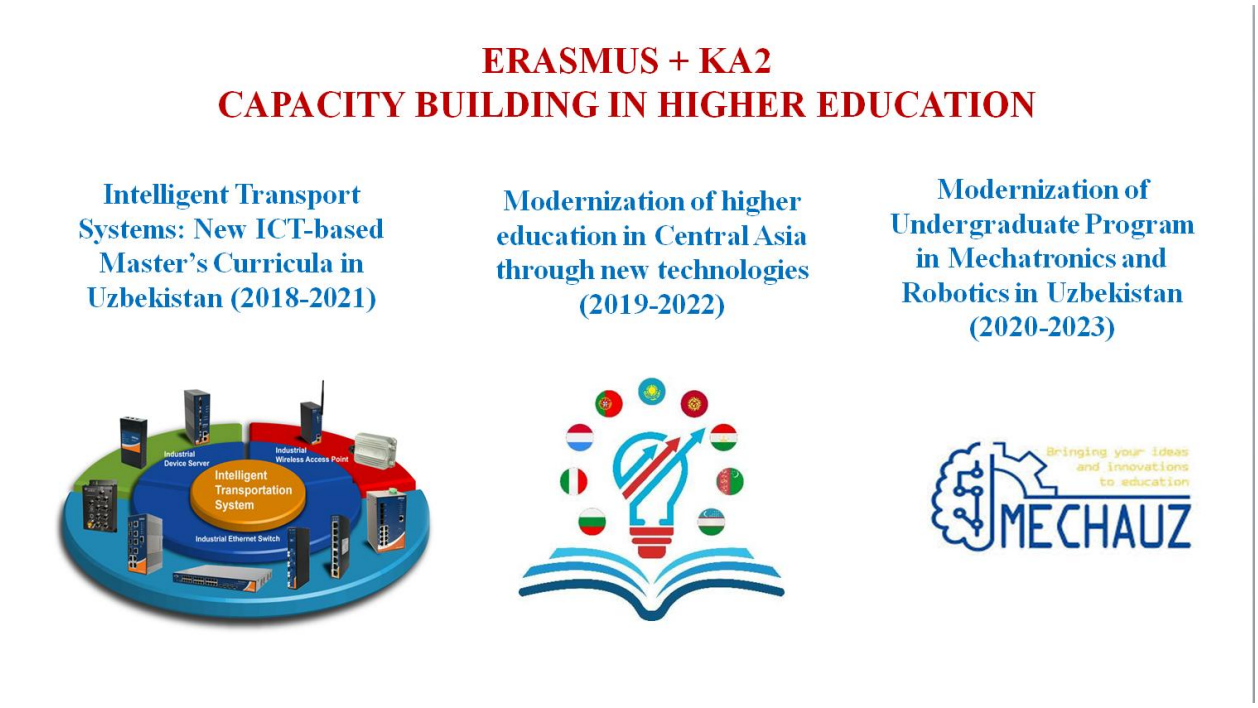
giz

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Within the framework of cooperation, academic mobility of professors, teachers and students is carried out, as well as the development of scientific and educational programs for international grants.



In recent years, design work has been carried out under the ERASMUS+, World Bank and other programs.



ERASMUS + KA2
CAPACITY BUILDING IN HIGHER EDUCATION

101082242 – I2-PLEDGE "Innovative and interdisciplinary Programmes in Bio-medical Engineering to Leverage and Exploit the Digital Growth programme for students' employability in Uzbekistan"

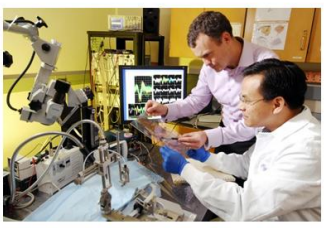
I2-PLEDGE

101082221 - UzMedEn : New master's degree and training course programs in the field of medical engineering in Uzbekistan

Erasmus+ UzMedEn

ACADEMIC INNOVATION FUND
(WORLD BANK)

Joint master program in the field of medical engineering in Uzbekistan (2019-2021)



SYNERGY: Building Synergies between Higher Education and Industry in Uzbekistan (2019-2021)

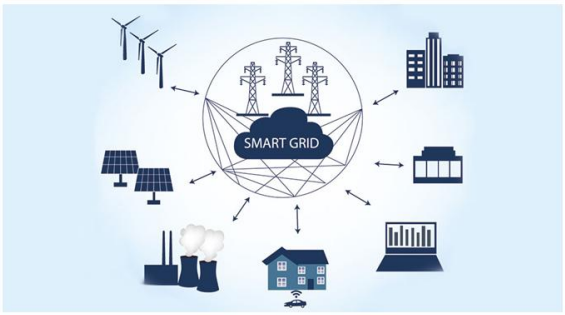
Modernization of Undergraduate Program in Mechatronics and Robotics in Uzbekistan (2019-2021)

Activities to attract professors and teachers from near and far abroad are intensifying. For example, in 2024, more than 50 foreign teachers were invited to the educational process. The increase in the number of foreign teachers invited to the Andijan Machine-Building Institute serves to improve the educational process and increase the effectiveness of research activities.

SCIENTIFIC PROJECTS FUNDED BY AGENCY FOR INNOVATIVE DEVELOPMENT

Development of antimicrobial nonwoven products from silk waste for medical applications

The research & application of smart (AI) grid system with renewable energies based on big data



Andijan State Technical Institute, created on the basis of the Andijan Machine-Building Institute and the Andijan Institute of Economics and Construction, continued to implement its program in 2024, which is aligned with the Sustainable Development Goals. Sustainable development at an educational institution can be viewed as both a goal and a tool. To this end, the institute continues to disseminate sustainable development principles and better utilize its potential for these purposes.

In accordance with the needs of the modern labor market, the educational programs in all areas of study include courses aimed at studying best practices in environmental safety and resource-saving technologies.

In 2024, students and staff of the institute organized and participated in various events. Over the past three years, the institute has organized and participated in events related to sustainability, sustainable development, ecology, and poverty reduction.

The institute's youth policy actively promotes the development of a responsible society through extracurricular activities, cultural and creative events, and the development of student initiatives in the area of sustainable development goals. Student initiatives are a successful solution and clearly contribute to further sustainable development and functioning.

Students and staff of the institute actively participate in various public events dedicated to sustainable development issues, including the introduction of social credit, tree planting in Andijan City, cleanups, seminars and debates on gender equality, and more.

Andijan State Technical Institute was approved for participation in the Project for the Comprehensive Socioeconomic Modernization of Districts and the Andijan Region for the economic recovery of the community and the development of new professions within the communities.

The project encompasses four aspects:

Aspect 1: Fair Livelihood Development and Job Creation

Aspect 2: Creating and Developing a Creative Economy

Aspect 3: Applying Knowledge to Public Health

Aspect 4: Promoting Environmental Health and the Circular Economy in Specific Areas.

Andijan State Technical Institute continues to implement measures across all departments of the institute, such as smoke-free spaces and no-smoking campaigns, to ensure staff and students are aware of the dangers of smoking, to create a culture of hygiene, and to display no-smoking signs in their workplaces. Additionally, a smoking cessation counseling service exists to help students and staff, including other smokers, quit smoking. This counseling service is designed for anyone interested, whether themselves or their loved ones, while also developing an understanding of successful smoking cessation steps as part of community health promotion. Anyone interested can access this service through the counseling service. To inform the public about the Institute's activities within the framework of the Sustainable Development Goals, a special tab "Sustainable Development Goals" has been created on the website (https://astiedu.uz) in three languages.

In addition to proactive and strategic mission-driven activities, Andijan State Technical Institute continues to carry out activities in support of all SDGs, including SDG 5: Gender equality, ensuring equality for women and girls; SDG 6: Clean water and sanitation, sustainable management of water resources for daily use; SDG 8: Decent work and economic growth, promoting economic growth; SDG 10: Reduced inequalities, reducing inequalities within and at the national level; SDG 15: Life on Land, promoting sustainable use of terrestrial ecosystems; SDG 16: Peace and justice, strong institutions, promoting peace and equal access to justice; and SDG 17: Partnerships for the Goals, establishing cooperative agreements at the international level for sustainable development. Images of activities and operations have been included in this SDG Report. These images represent only a portion of all activities and results related to the achievement of the Sustainable Development Goals.

https://sdgs.astiedu.uz/green/six/twelve_show