



**UI GREENMETRIC
REPORT**

2025

**AZERBAIJAN TECHNICAL
UNIVERSITY**

**REPORT ON EDUCATION AND
RESEARCH**

Introduction

In 2025, Azerbaijan Technical University (AzTU) significantly expanded its role in advancing education and research for sustainable development through a comprehensive approach that integrates academic innovation, interdisciplinary research, international cooperation, and active student engagement. Sustainability at AzTU is embedded not only within academic curricula but also recognized as a strategic institutional priority that guides policy development, research agendas, and capacity-building initiatives. This approach ensures alignment with Azerbaijan's national development strategies as well as with international sustainability frameworks and best practices.

Throughout 2025, AzTU implemented and supported a wide range of education- and research-oriented activities that directly contribute to the United Nations Sustainable Development Goals (SDGs), particularly SDG 4 (Quality Education), SDG 9 (Industry, Innovation and Infrastructure), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals). Academic programs increasingly incorporated sustainability-related content, including climate resilience, green technologies, sustainable engineering, and innovation-driven solutions for industry and infrastructure development. These curricular enhancements were complemented by research projects addressing real-world challenges related to energy efficiency, environmental protection, smart cities, and low-carbon technologies.

In addition, AzTU strengthened its international cooperation by actively engaging in partnerships with foreign universities, research institutions, and international organizations. These collaborations facilitated joint research projects, academic exchanges, capacity-building workshops, and co-organized scientific events, fostering knowledge transfer and cross-border innovation. Student engagement was also a central component of AzTU's sustainability efforts, with students participating in training programs, seminars, competitions, and applied research initiatives that encourage problem-solving, entrepreneurship, and social responsibility.

The university's commitment to sustainability in education and research is further demonstrated through publicly documented academic conferences, international forums, professional training programs, and research-driven initiatives conducted throughout the year. These activities not only enhance the quality and relevance of higher education at AzTU but also strengthen the university's contribution to national and global sustainable development objectives. Through the integration of education, research, and partnerships, AzTU continues to position itself as a key academic actor supporting innovation-led, inclusive, and climate-resilient development.

References

[UI GreenMetric](#)

[National Information Portal on Sustainable Development](#)

[AzTU Sustainability](#)

Objectives

AzTU’s education and research objectives for sustainability in 2025 include:

- Integrating sustainability principles across teaching and learning activities
- Enhancing research capacity in climate, energy, and green technologies
- Promoting innovation-driven and industry-oriented education
- Expanding international academic cooperation
- Strengthening student participation in research and sustainability initiatives

These objectives are operationalized through concrete academic programs, research projects, and international collaborations reported during 2025. ([source](#))

Keywords

Sustainable Development	Environmental Engineering	Innovation	Mental Health
Climate Action	Green Campus	SDG Implementation	Life Safety Engineering
Higher Education	Student Engagement	Sustainability Education	Educational Policy
Volunteerism	Research Grants	Carbon Reduction	Community Outreach
Startups	Clean Energy	Sustainable Economy	Cultural Activities
Renewable Energy	Waste Management	Youth Participation	Academic Research

Current situation

1) Sustainability-Oriented Teaching and Academic Development

In 2025, AzTU actively enhanced sustainability-oriented education through **seminars, workshops, and academic training sessions** aimed at improving teaching quality and modernizing curricula. Events focusing on **digitalization, artificial intelligence, and innovative teaching methodologies** contribute indirectly to sustainability by improving educational efficiency and future-oriented skills.

Examples include professional development seminars for academic staff and workshops on modern educational standards and quality management systems. ([source 1](#)), ([source 2](#))



2) Research Capacity Building and Scientific Events

AzTU strengthened its research ecosystem in 2025 by organizing and participating in **national and international scientific conferences, workshops, and symposiums** addressing sustainability-related themes. Topics such as **digital medicine, green technologies, cybersecurity, artificial intelligence, and innovation systems** demonstrate the university's interdisciplinary research focus.

These events contribute to sustainable development by fostering knowledge exchange, research dissemination, and applied scientific solutions. ([source 1](#)), ([source 2](#)), ([source 3](#))



3) International Academic Cooperation and Partnerships

Internationalization plays a key role in AzTU's education and research strategy. In 2025, the university significantly expanded its **global academic partnerships** through cooperation agreements, memoranda of understanding, and official visits involving universities from **Germany, Pakistan, Malaysia, Indonesia, Türkiye, Romania, Kazakhstan, Cyprus, Israel, and Uzbekistan**.

These partnerships support joint research, academic mobility, curriculum development, and knowledge transfer in sustainability-related fields. ([source 1](#)), ([source 2](#)), ([source 3](#)), ([source 4](#))



4) Student Research, Innovation, and Competitions

Student engagement in research and innovation remains a core strength of AzTU. In 2025, students actively participated in **startup competitions, hackathons, innovation exhibitions, and international contests**, showcasing solutions related to green technologies, digital transformation, and sustainable development.

These activities enhance practical research skills and foster sustainability-oriented entrepreneurship among students. ([source 1](#)), ([source 2](#)), ([source 3](#))



5) Industry Collaboration and Applied Research

AzTU actively collaborates with industry partners to strengthen applied research and workforce-oriented education. In 2025, cooperation agreements and joint initiatives with technology companies and industrial organizations supported research commercialization, innovation labs, and practice-oriented education.

These collaborations ensure that research outcomes contribute directly to sustainable industrial development. ([source 1](#)), ([source 2](#)), ([source 3](#))



6) Digital Transformation and Research Infrastructure

Digital transformation initiatives at AzTU support both education and research sustainability by enhancing access to data, digital platforms, and research tools. Training sessions conducted by international providers and technology companies contribute to building advanced research and analytical capacity. ([source 1](#)), ([source 2](#))



Future goals

Building on its 2025 achievements, AzTU aims to:

- Expand sustainability-focused curricula and interdisciplinary programs
- Increase international research collaboration and joint projects
- Strengthening student-led research and innovation ecosystems
- Enhance digital research infrastructure and data accessibility
- Continuing alignment with global sustainability frameworks

Conclusion

In 2025, Azerbaijan Technical University demonstrated a **dynamic, evidence-based, and forward-looking approach** to education and research for sustainable development. Through academic modernization, international cooperation, student innovation, and applied research, AzTU actively contributes to national and global sustainability objectives.

Aligned with **UI GreenMetric criteria** and the **UN Sustainable Development Goals**, AzTU's education and research activities reinforce the university's role as a key driver of sustainable transformation through knowledge, innovation, and collaboration.