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Country : Uzbekistan
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[1] Setting and Infrastructure (SI)

1.23 – Planning, Implementation, Monitoring and Evaluation of SI Programs through the Utilization of ICT

Uzbekistan State World Languages University (UzSWLU) actively integrates Information and Communication Technology (ICT) into the planning, implementation, monitoring, and evaluation of all programs related to Setting and Infrastructure (SI). This digital transformation ensures that decision-making in campus management, sustainability, and operational efficiency is data-driven, transparent, and environmentally responsible.

ICT Integration in Campus Planning

All campus infrastructure programs — including building maintenance, energy management, water systems, waste collection, and green area monitoring — are coordinated through digital planning tools and internal dashboards.

The University Digital Infrastructure Map, developed by the IT Department in 2024, provides an updated overview of every building, facility, and utility network across all campuses, including the Main, Zakovat, Lutfiy, Angren, and Orta Chirchiq sites.

This GIS-based mapping system helps administrators plan renovation projects, evaluate green zones, and monitor accessibility in real time.

Monitoring and Evaluation Systems

UzSWLU uses several ICT-supported tools to continuously track progress on sustainability-related infrastructure indicators:

- Green Zone Digital Monitoring System (GZDMS): Records data on campus vegetation, tree growth, and landscape coverage, enabling remote updates and annual reporting for GreenMetric.
- SmartSafety Alert Platform: Integrated across all buildings to detect fire, smoke, and motion; directly connected to the Security Monitoring Center.
- E-Ma'muriyat System: Used for energy consumption analysis, lighting control, and preventive maintenance planning.
- Digital Waste Log: Monitors collection frequency, recycling progress, and waste disposal sites.
- Water Use Dashboard: Tracks monthly usage rates and detects leaks in plumbing infrastructure.

All these systems generate automatic performance reports submitted to the Infrastructure and Sustainability Committee under the Vice-Rector for Administrative Affairs.

Implementation and Coordination

The university's ICT and Data Analytics Division, operating under the Department of Strategic Development, ensures the integration of digital tools into all infrastructural programs. Each campus unit updates its indicators quarterly through a centralized online form, allowing real-time visualization of performance in energy efficiency, green coverage, and safety.

The data are reviewed by the GreenMetric Working Group, which aligns annual outcomes with national reporting requirements and SDG targets.

ICT-based evaluation supports evidence-driven resource allocation, ensuring that sustainability priorities are implemented effectively and continuously improved.

Digital Education and Capacity Building

UzSWLU also invests in digital literacy and sustainability training for administrative and technical staff.



Workshops on GIS mapping, energy tracking, and environmental data visualization are held annually to enhance institutional capacity.

Students from IT, linguistics, and translation faculties are involved in data collection and system maintenance as part of experiential learning modules.

This approach strengthens cross-disciplinary cooperation between language, technology, and sustainability — a hallmark of UzSWLU’s innovative culture.

Future Development (2025–2030)

In line with the university’s Digital Green Campus Strategy (2025–2030), new ICT initiatives are being developed:

- Expansion of the online Sustainability Portal to integrate all SI indicators, including SDG progress dashboards.
- Implementation of mobile-based reporting apps for maintenance staff and students to report infrastructure issues or environmental hazards in real time.
- Integration of AI-assisted data analytics to forecast energy use and optimize water and waste management.

These actions demonstrate UzSWLU’s vision of becoming a smart and sustainable university through innovation, technology, and continuous improvement.

Summary Table – ICT Utilization for SI Programs

System / Platform	Function	Status
Green Zone Digital Monitoring System (GZDMS)	Tree, plant, and green area monitoring	Active since 2024
E-Ma’muriyat Platform	Energy, water, and maintenance management	Operational
SmartSafety Alert System	Fire, smoke, and motion detection	Linked with Security Center
Digital Infrastructure Map (GIS)	Campus-wide facility visualization	Updated quarterly
Online Waste Log	Waste tracking and recycling data	Functional
Water Use Dashboard	Leak detection and consumption tracking	Operational
Sustainability Data Portal	Centralized monitoring and SDG reporting	Under development