NAVOI STATE UNIVERSITY OF MINING AND TECHNOLOGIES

Navoi, Uzbekistan | www.nsumt.uz

RECTOR'S ORDER
No. 01-GD/2024
ON DIGITAL TRANSFORMATION, DATA GOVERNANCE, AND ICT POLICY AT NSUMT

Issued on 15 January, 2024

PREAMBLE

In accordance with the strategic development goals of Navoi State University of Mining and Technologies (NSUMT) and in alignment with the national digitalization agenda of the Republic of Uzbekistan, this Order establishes the institutional framework for the adoption, governance, and continuous improvement of advanced digital technologies, including Artificial Intelligence (AI), the Internet of Things (IoT), and integrated Information and Communication Technology (ICT) systems across all university functions.

ARTICLE 1 – PURPOSE AND SCOPE

1.1. This Order governs the use of advanced digital technologies at NSUMT to support decision-making, operational efficiency, and quality of service delivery for students, staff, faculty, and other stakeholders.

1.2. This policy applies to all faculties, departments, administrative units, research centers, and support services of the university.

1.3. The following technology categories are covered under this policy:

- Artificial Intelligence (AI) and machine learning applications
- Internet of Things (IoT) devices and sensor networks
- Integrated digital management platforms (HEMIS, EDO, LIMS, etc.)
- Smart campus infrastructure (energy, water, waste, transport systems)
- Data analytics, dashboards, and decision-support tools
- E-document and paperless workflow systems

ARTICLE 2 – KEY DIGITAL INITIATIVES

2.1. HEMIS & EDO Integrated Management System: The university shall maintain and expand the HEMIS academic management system and EDO electronic

document management system as the primary platforms for student records, HR, administrative workflow, and institutional monitoring.

2.2. IoT-Based Smart Campus: IoT sensors, smart meters, and SCADA systems shall be deployed and maintained across campus facilities to monitor energy production and consumption, water usage, waste management, and environmental conditions in real time.

2.3. GPS-Based Transportation Monitoring: The University's shuttle fleet shall be equipped with GPS tracking systems to optimize routes, improve punctuality, and enhance service quality.

2.4. AI-Assisted Research Decision Support: The University shall utilize national platforms (monitoring.ilmiy.uz, slab.gov.uz) and institutional tools to support research planning, publication tracking, and laboratory data management.

2.5. Paperless Administration: All routine administrative processes shall progressively transition to digital document workflows through the EDO system, reducing paper consumption and improving processing speed.

2.6. ICT for Sustainability: Digital tools shall be applied across all sustainability programs (energy, water, waste, transport, education) in alignment with UI GreenMetric criteria.

ARTICLE 3 – GOVERNANCE AND RESPONSIBILITIES

3.1. The Digital Education Technologies Centre (DETC) shall serve as the primary unit responsible for coordinating ICT implementation, maintenance, training, and performance monitoring.

3.2. The Sustainability Commission shall oversee digital tools applied to sustainability programs and ensure alignment with GreenMetric criteria.

3.3. The Facility Management Department shall manage IoT and smart infrastructure systems including energy, water, and waste monitoring.

3.4. The Department for Science and Research Innovations shall coordinate AI-assisted research tools and reporting platforms.

ARTICLE 4 – DATA GOVERNANCE AND SECURITY

4.1. All data collected through digital systems shall be stored, processed, and protected in accordance with applicable laws of the Republic of Uzbekistan on personal data and information security.

4.2. Access to institutional systems shall be managed through role-based authentication controls.

4.3. The university shall conduct annual ICT security reviews and update access policies accordingly.

ARTICLE 5 – PERFORMANCE MONITORING AND REVIEW

5.1. An annual ICT Performance Review shall be conducted by the Digital Education Technologies Centre each October to assess the effectiveness, coverage, and impact of all digital systems.

5.2. Key Performance Indicators (KPIs) shall be defined for each digital initiative and tracked via dashboards and institutional reporting systems.

5.3. Stakeholder feedback shall be collected annually through online surveys and used to improve digital services.

5.4. Results of the review shall be reported to the Rector and used to update the Digital Transformation Roadmap.

Rector of the University
Dr. Bakhtiyor Mardonov, professor