

# **AZERBAIJAN STATE UNIVERSITY OF ECONOMICS (UNEC)**

**POLICY ON THE USE OF  
ARTIFICIAL INTELLIGENCE,  
INTERNET OF THINGS, AND  
ADVANCED DIGITAL  
TECHNOLOGIES**

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## 1. Purpose

The Azerbaijan State University of Economics (UNEC) recognizes digital transformation as a strategic enabler for sustainable development, institutional effectiveness, academic excellence, and high-quality service delivery. As emerging technologies continue to reshape higher education worldwide, UNEC is committed to adopting and integrating advanced digital technologies -including Artificial Intelligence (AI), Internet of Things (IoT), Big Data Analytics, Cloud Computing, Digital Automation, and Smart Campus Solutions -across its academic and administrative operations.

The purpose of this policy is to establish a comprehensive framework for the responsible, ethical, secure, and effective use of advanced digital technologies to improve decision-making processes, optimize resource utilization, enhance operational efficiency, strengthen teaching and learning activities, support research and innovation, and improve stakeholder services.

This policy aligns with UNEC's strategic objectives related to digital transformation, sustainability, innovation, quality assurance, and institutional development.

## 2. Scope

This policy applies to all academic units, administrative departments, research centers, support services, faculty members, researchers, students, and external partners involved in the use, development, management, or implementation of advanced digital technologies within UNEC.

The policy covers:

- Artificial Intelligence applications;
- Internet of Things (IoT) systems;
- Smart campus technologies;
- Data analytics and business intelligence tools;
- Digital administration systems;
- Cloud-based services and platforms;
- Digital learning technologies;
- Research-related digital infrastructure;
- Automated service delivery systems.

## 3. Policy Principles

UNEC shall be guided by the following principles when implementing advanced digital technologies:

### 3.1 Innovation and Continuous Improvement

UNEC encourages the exploration and adoption of innovative technologies that improve institutional performance, support sustainability objectives, and enhance the quality of education, research, and administration.

### 3.2 Human-Centered Approach

Technology should support and enhance human decision-making rather than replace human judgment in critical academic and administrative processes.

### **3.3 Ethical and Responsible Use**

All digital technologies shall be implemented and utilized in accordance with ethical standards, fairness principles, transparency requirements, and applicable laws and regulations.

### **3.4 Data Security and Privacy**

UNEC shall ensure the protection of personal, academic, administrative, and research data through appropriate cybersecurity measures and data governance practices.

### **3.5 Sustainability**

Digital technologies should contribute to reducing resource consumption, increasing operational efficiency, supporting environmental sustainability, and promoting responsible use of energy and materials.

### **3.6 Inclusiveness and Accessibility**

Digital solutions should be designed to ensure accessibility, equal opportunities, and user-friendly experiences for all members of the university community.

## **4. Strategic Objectives**

UNEC aims to achieve the following strategic objectives using advanced digital technologies:

### **4.1 Enhance Decision-Making**

Utilize AI, predictive analytics, and business intelligence systems to support evidence-based strategic planning, institutional performance assessment, resource allocation, risk management, and policy development.

### **4.2 Improve Operational Efficiency**

Automate routine administrative processes, reduce manual workloads, minimize duplication of activities, and improve service response times through digital technologies.

### **4.3 Develop a Smart Campus**

Implement IoT-based monitoring and management systems to improve:

- Energy efficiency;
- Water consumption monitoring;
- Building management;
- Environmental quality monitoring;
- Security systems;
- Asset management;
- Facility utilization.

### **4.4 Strengthen Academic Excellence**

Promote responsible use of AI and digital technologies in:

- Teaching and learning;
- Curriculum development;
- Student advising;
- Academic support services;
- Assessment and feedback processes;
- Educational innovation.

## 4.5 Support Research and Innovation

Facilitate the use of advanced digital technologies in research activities, interdisciplinary collaboration, innovation projects, and scientific discovery.

## 4.6 Improve Stakeholder Services

Enhance digital services provided to students, faculty, staff, alumni, partners, and other stakeholders through user-centered technology solutions.

# 5. Implementation Areas

## 5.1 Administrative Processes

UNEC shall promote digital transformation within administrative functions, including:

- Human resource management;
- Financial management;
- Procurement processes;
- Document management;
- Student administration;
- Quality assurance activities;
- Strategic planning and reporting.

AI-supported tools may be utilized to improve workflow efficiency, process optimization, forecasting, and institutional analytics.

## 5.2 Academic Processes

Digital technologies may support:

- Learning management systems;
- Personalized learning experiences;
- Student performance monitoring;
- Academic advising;
- Digital assessment systems;
- Online and blended education environments.

## 5.3 Smart Campus Operations

IoT technologies may be utilized to:

- Monitor energy consumption;
- Manage lighting systems;
- Optimize heating and cooling systems;
- Monitor indoor environmental conditions;
- Improve facility maintenance planning;
- Support campus sustainability initiatives.

## 5.4 Data Analytics and Business Intelligence

UNEC shall develop institutional data analytics capabilities to generate insights that support:

- Strategic decision-making;
- Institutional performance evaluation;
- Resource planning;
- Sustainability monitoring;

- Student success initiatives.

## 6. Governance and Responsibilities

### 6.1 University Leadership

University leadership shall:

- Provide strategic direction for digital transformation;
- Allocate resources for technology development;
- Monitor implementation outcomes;
- Ensure alignment with institutional goals.

### 6.2 Academic and Administrative Units

Units shall:

- Implement relevant digital solutions;
- Support data-driven decision-making;
- Ensure compliance with this policy;
- Identify opportunities for innovation and improvement.

### 6.3 Information Technology Services

The IT units responsible shall:

- Maintain digital infrastructure;
- Ensure cybersecurity and system reliability;
- Support technology integration initiatives;
- Provide technical assistance and training.

### 6.4 Faculty, Staff, and Students

All users shall:

- Use digital technologies responsibly and ethically;
- Protect institutional data;
- Comply with cybersecurity requirements;
- Participate in relevant training activities.

## 7. Capacity Building

UNEC shall provide continuous professional development opportunities to improve digital literacy and technological competencies among faculty members, researchers, administrative staff, and students.

Training initiatives may include:

- Artificial Intelligence literacy;
- Digital skills development;
- Cybersecurity awareness;
- Data analytics competencies;
- Smart campus technologies;
- Ethical technology use.

## 8. Monitoring and Evaluation

UNEC shall establish mechanisms to monitor the effectiveness of digital technology implementation through measurable indicators such as:

- Process efficiency improvements;
- Service delivery performance;
- Resource utilization efficiency;
- User satisfaction levels;
- Digital adoption rates;
- Sustainability outcomes;
- Innovation and research outputs.

Periodic assessments shall be conducted to identify opportunities for improvement and ensure continuous enhancement of digital transformation initiatives.

## 9. Review and Continuous Improvement

This policy shall be reviewed periodically to reflect technological developments, emerging best practices, institutional priorities, and stakeholder needs.

UNEC is committed to continuously improving the use of advanced digital technologies to support strategic decision-making, operational excellence, academic innovation, sustainability, and high-quality service delivery.