



Water Pollution Control Program

Chirchik State Pedagogical University

1. Introduction

The Water Pollution Control Program (WR.5) at Chirchik State Pedagogical University is an institutional initiative designed to ensure environmental sustainability, protect local water resources, and prevent pollution across the campus.

This program aligns with national environmental regulations, the UN Sustainable Development Goals (SDG 6 – Clean Water and Sanitation), and UI GreenMetric environmental criteria.

The initiative integrates preventive measures, technical supervision, monitoring activities, and awareness campaigns to ensure the efficient use of water resources and protection of aquatic ecosystems in and around the campus.

2. Objectives

The main objectives of the Water Pollution Control Program are:

1. To prevent any form of water pollution from university operations, including laboratory, maintenance, and domestic sources.
2. To maintain a healthy and safe environment for students, faculty, and staff by ensuring high-quality water supply.
3. To implement sustainable wastewater management that meets national water discharge standards.
4. To enhance environmental awareness among the university community about the importance of water conservation and pollution control.
5. To strengthen collaboration with regional ecological and sanitary authorities for joint monitoring and project development.

3. Policy Framework

The program operates within the following legal and institutional framework:

- Law of the Republic of Uzbekistan “On measures for environmental protection and the organization of activities of state bodies in the field of environmental control” (<https://lex.uz/docs/-5801426>)
- SanPiN drinking water and wastewater discharge standards
- University Sustainability Policy (<https://cspu.uz/storage/app/media/2025/july/Chirchik%20State%20Pedagogical%20University%20Sustainability%20Policy.pdf>)
- Agreement with Water Supply Department of Tashkent Region on clean water provision and system maintenance

These policies ensure that the university adheres to both national environmental legislation and institutional sustainability principles.

4. Program Components

4.1 Wastewater Management

- All wastewater from university buildings (academic, administrative, and dormitory facilities) is directed to the **city's centralized sewage system** managed by *Toshkent Viloyat Suv Ta'minoti*.
- Regular inspection of sewage pipelines prevents leakage and cross-contamination.
- Planned future development includes installing **localized wastewater filtration units (micro-IPAL)** for laboratories and high-use areas.
- Sedimentation and filtration processes are used to ensure that discharged water meets safe environmental standards.

4.2 Stormwater and Surface Runoff Management

- Drainage channels are cleaned regularly to prevent blockages and contamination from solid waste.
- Plans are underway to introduce a **rainwater harvesting system** for irrigation and cleaning purposes.
- Permeable paving materials are encouraged in new construction areas to reduce surface runoff and soil erosion.

4.3 Water Quality Monitoring

- The university collaborates with **regional environmental and health agencies** for semi-annual laboratory testing of water quality.
- Parameters monitored include pH, turbidity, chlorine level, dissolved oxygen, and bacterial count.
- Monitoring results are recorded in internal reports and used to adjust water management strategies.

4.4 Pollution Prevention Measures

- **Zero-litter and clean drainage policies** are enforced across all faculties.
- Environment officers regularly inspect water outlets, taps, and drainage systems.
- Cleaning products used in maintenance are **eco-friendly and phosphate-free**.
- Waste from laboratories (if any) is disposed of in accordance with national hazardous waste regulations.

4.5 Education and Awareness

- Annual events and training are held to strengthen environmental culture among students and staff, such as:
 - “World Water Day” seminar (March 22) themed “*There is No Life Without Water*”
 - Environmental campaigns, poster exhibitions, and essay contests promoting water conservation
 - Student participation in the “Green Campus – Clean Water Source” initiative
- Educational materials on water pollution and sustainability are disseminated through the university website and social media channels.

5. Implementation and Responsibilities

The implementation of the Water Pollution Control Program is coordinated by:

Unit / Department	Key Responsibilities
Facilities and Maintenance Department	Maintenance of water supply, drainage, and sewage infrastructure; leak prevention
Environmental and Sustainability Group	Monitoring, documentation, reporting, and liaison with regional agencies
Faculty Deans and Building Supervisors	Ensuring compliance in each building; organizing student awareness activities
Student Environmental Club	Participating in awareness campaigns, campus clean-ups, and data collection
Vice-Rector for Financial Affairs	Overall supervision, resource allocation, and integration with GreenMetric reporting

6. Monitoring and Evaluation

- **Frequency:** Every 6 months (biannual assessment)
- **Indicators:**
 - Water quality parameters (pH, turbidity, biological safety)
 - Frequency of leakage or pollution incidents
 - Student participation rate in awareness programs
 - Reduction in water consumption per capita
- **Evaluation Process:**
 - Internal audits conducted by the university's Environmental Office
 - External verification by the Regional Ecology Department
 - Results submitted in annual Sustainability Performance Report

7. Results Achieved (2023–2025)

- No recorded cases of water contamination within the campus.
- Improved efficiency in water supply and drainage system maintenance.
- Enhanced environmental awareness among students through regular seminars and training.
- Increased collaboration with local environmental authorities for joint conservation projects.
- Improved data collection for GreenMetric and national sustainability reporting.

8. Future Directions (2025–2028)

- Construction of rainwater harvesting systems for irrigation.
- Implementation of micro wastewater treatment units for campus laboratories.
- Expansion of student-led "Green Campus – Clean Water Source" program.
- Development of a digital monitoring dashboard for water quality data.
- Integration of environmental education into the general curriculum.

9. Conclusion

The Water Pollution Control Program of Chirchik State Pedagogical University embodies the institution's commitment to sustainable water management and environmental protection. By combining policy



enforcement, infrastructure monitoring, and community education, the university is building a cleaner, safer, and greener learning environment.

This program contributes directly to SDG 6 (Clean Water and Sanitation) and strengthens CSPU's participation in UI GreenMetric World University Rankings.