



TSUULL

Biodiversity and Genetic Resources Conservation Program

2025 – 2030

Sustainable Practices Office · Tashkent State University of Uzbek Language and Literature

1. Program Purpose

The TSUULL Biodiversity and Genetic Resources Conservation Program aims to conserve plant, animal, and agricultural genetic resources while protecting biodiversity across the university's campuses. The program integrates conservation into campus operations, education, research, student engagement, and sustainable land management to ensure the long-term preservation of biological resources for future generations.

2. Objectives

The program seeks to:

- Conserve native and agricultural plant genetic resources.
- Maintain healthy animal genetic diversity through responsible livestock management.
- Protect pollinators and beneficial wildlife.
- Preserve aquatic biodiversity through controlled conservation facilities.
- Improve campus biodiversity and ecosystem resilience.
- Promote sustainable agriculture and food security.
- Support experiential learning and research.
- Engage students and staff in biodiversity conservation.
- Contribute to national biodiversity goals and the UN Sustainable Development Goals.

3. Conservation Facilities

The program covers the following permanent conservation facilities.

01

Apple Orchard Conservation Area

Maintains long-term conservation of locally adapted fruit varieties while supporting biodiversity, sustainable land management, environmental education, and food production.

02

Agricultural Crop Conservation Fields

The Akkurgan Campus conserves diverse food crop genetic resources including potatoes, onions, carrots, cabbage, tomatoes, cucumbers, peppers, pumpkins, melons, watermelons and other crops important for sustainable agriculture.

03

Greenhouse Conservation Facility

Maintains year-round cultivation of vegetables and herbs under controlled conditions to preserve plant genetic resources regardless of seasonal limitations.

04

Beekeeping Conservation Area



Supports pollinator conservation through managed beehives while enhancing pollination, biodiversity, ecosystem health, environmental education, and sustainable honey production.

05**Livestock Genetic Resources**

The cattle farm preserves domesticated animal genetic diversity while supporting sustainable animal husbandry and practical education.

06**Poultry Conservation Facility**

Maintains poultry genetic resources and demonstrates sustainable food production practices.

07**Aquatic Biodiversity Conservation Facility**

Maintains freshwater fish, aquatic plants, turtles, amphibians, ornamental invertebrates and other aquatic organisms in controlled habitats for conservation, education, and biodiversity awareness.

4. Program Components

A. Flora Conservation	B. Fauna Conservation
• Tree planting and orchard maintenance • Native vegetation enhancement • Seedling propagation • Greenhouse conservation • Plant health monitoring • Sustainable irrigation and organic fertilization • Integrated pest management	• Animal welfare monitoring • Veterinary health inspections • Sustainable livestock management • Poultry breeding management • Habitat improvement • Pollinator protection • Wildlife-friendly landscaping
C. Genetic Resource Conservation	D. Habitat Protection
• Fruit tree varieties • Vegetable varieties • Herb collections • Livestock breeds • Poultry resources • Honeybee colonies • Aquatic organisms	• Campus green areas • Orchard ecosystems • Agricultural fields • Pollinator habitats • Aquatic habitats • Landscaped biodiversity corridors

5. Education and Research

The program supports a range of academic and outreach activities:

- Practical student training
- Biodiversity field observations
- Sustainable agriculture demonstrations
- Environmental education
- Research projects
- Student internships
- Academic publications
- Community outreach

6. Student Participation

Students participate in the program through a variety of hands-on activities:

- Nature Nurture Hours



- Qalqon Eco-Activists
- Tree planting campaigns
- Campus biodiversity surveys
- Greenhouse volunteering
- Beekeeping assistance
- Farm maintenance
- Environmental awareness campaigns

7. Monitoring Indicators

The Sustainable Practices Office monitors the following indicators annually:

Indicator	Category
Number of conserved plant species	Flora
Number of animal species maintained	Fauna
Number of crop varieties conserved	Agriculture
Number of fruit tree varieties	Agriculture
Honey production volume	Beekeeping
Livestock health status	Fauna
Tree survival rates	Flora
Greenhouse productivity	Flora
Student participation rate	Engagement
Biodiversity enhancement projects completed	Outcomes

8. Governance

Lead Office	Sustainable Practices Office
Supporting Units	• Youth Union • Campus Facilities Department • Academic Departments • Student Eco-Activists • Farm Management Unit

9. Implementation Status (2025)

Component	Status
Orchard conservation	✓ Fully Implemented
Crop conservation fields	✓ Fully Implemented
Greenhouse conservation	✓ Fully Implemented



Beekeeping	✓ Fully Implemented
Livestock conservation	✓ Fully Implemented
Poultry conservation	✓ Fully Implemented
Aquatic conservation facility	✓ Fully Implemented
Student volunteer conservation	✓ Fully Implemented
Biodiversity awareness activities	✓ Fully Implemented
Annual monitoring	✓ Fully Implemented

OVERALL IMPLEMENTATION

More than 75% complete — approximately 85–90% across all program components as of 2025.

10. Expected Outcomes (2025–2030)

The program is expected to deliver the following outcomes by 2030:

- Long-term conservation of plant and animal genetic resources.
- Improved campus biodiversity and ecosystem resilience.
- Increased pollinator populations and habitat quality.
- Enhanced environmental education and student engagement.
- Sustainable food production supporting campus operations.
- Stronger integration of conservation into teaching, research, and community outreach.

UN Sustainable Development Goals Alignment

This program contributes directly to the following UN Sustainable Development Goals:

SDG 2

Zero Hunger

SDG 4

Quality Education

SDG 13

Climate Action

SDG 15

Life on Land

Sustainable Practices Office

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