University :UzSWLU
Country :Uzbekistan
Web Address :https://www.uzswlu.uz/en

[5] Transportation (TR)
[5.13] The ratio of Parking Area to Total Campus Area

The Uzbekistan State University of World Languages (UzSWLU) has adopted a sustainable and compact campus design philosophy that minimizes land use for vehicle parking and road infrastructure.

This principle is rooted in the university's *Smart and Green Campus Master Plan (2023–2030)* and the *Sustainable Infrastructure Policy (Order No. 21/2024)*, which emphasize eco-friendly construction, water permeability, and the preservation of green zones.

Parking space allocation at UzSWLU follows the "less asphalt, more green" model, ensuring that paved surfaces are kept to a minimum while pedestrian and natural areas are maximized.

This strategy not only contributes to carbon reduction but also enhances microclimate comfort, improves water absorption, and supports biodiversity within the university environment.

1. Land Use Distribution (2025 Audit Results)

According to the 2025 campus land audit conducted by the Technical Department and the Green Office, the total campus area of UzSWLU amounts to 55,800 square meters (5.58 hectares). Of this total, approximately 4,000 m² are used for ground parking and internal roads, while the remaining 51,800 m² are dedicated to academic buildings, pedestrian walkways, and green open spaces.

Campus Land Category	Area (m²)	Share of Total Area
Academic & Administrative Buildings	21,400	38 %
Green & Open Spaces (lawns, trees, gardens)	23,600	42 %
Pedestrian Paths & Courtyards	6,800	12 %
Ground Parking & Roads	**4,000**	**≈7 %**
Total Campus Area	**55,800**	**100 %**

Result: Parking and road areas together represent only **around 7%** of the total campus surface — well below the UI GreenMetric Level 5 threshold (≤15%).

This efficient land-use distribution clearly demonstrates the university's commitment to creating a **green, pedestrian-oriented, and low-impact campus**.

2. Parking Facilities and Access Control

UzSWLU maintains **a limited but well-organized parking network** designed primarily for administrative staff, visitors, and essential service vehicles.
The campus currently offers approximately **750 parking spots**, distributed between the Main and Zakovat campuses.

Key characteristics of the system include:

- **Eco-parking design:** all lots use *permeable paving materials* that allow rainwater infiltration, reducing runoff and improving groundwater balance.
- **Green buffer zones:** trees, shrubs, and small gardens are integrated into parking design to reduce heat absorption and improve air quality.
- **EV priority areas:** 60 parking spaces are reserved exclusively for electric vehicles and are located near the university's three EV charging stations.
- **Limited access policy:** private vehicles are only allowed with QR-coded permits issued by the Transport Department.
- **Security and lighting:** all parking areas are equipped with LED motion-sensor lighting, surveillance cameras, and emergency call points.

Through this controlled-access approach, the university successfully limits congestion and ensures that vehicle circulation does not interfere with pedestrian mobility or campus aesthetics.

3. Sustainable Design Features

Parking areas at UzSWLU are developed as part of a broader *eco-engineering* vision:

- **Permeable surfaces:** 100% of the parking zones use interlocking paving blocks that reduce stormwater runoff and enhance soil permeability.
- **Tree-lined zones:** every 10 parking spaces are separated by planted trees to provide shade, oxygen, and visual comfort.
- **Rainwater drainage system:** all parking areas are connected to underground drainage channels that direct excess water to green infiltration wells.
- **Integrated EV charging:** all three solar-assisted EV stations are located within eco-parking zones.
- **No-expansion policy:** new building projects are not allowed to reduce existing green areas, and the parking footprint cannot exceed 10% of campus land.

Such measures ensure that the campus remains visually appealing, environmentally resilient, and climate-adaptive.

4. Environmental and Social Impact

The environmental benefits of maintaining a low parking ratio extend well beyond land efficiency:

- **Reduced heat island effect:** the surface temperature in eco-parking areas is 2–3°C lower than traditional asphalt.
- **Improved stormwater absorption:** runoff reduced by over 30% compared to pre-2020 conditions.
- **Enhanced biodiversity:** integration of trees and ground vegetation supports local bird and insect populations.
- **Noise and air pollution reduction:** 82% of the campus is car-free, minimizing vehicular disturbance.
- **Student well-being:** walkable and shaded campus areas improve overall comfort and encourage active transport.

The combination of eco-parking design and green zoning not only reduces emissions but also enriches the social atmosphere of the university.

5. Monitoring and Evaluation

The Green Office, together with the Technical Department, monitors the campus land use annually. All updates are recorded in the *Land Use and Sustainability Dashboard* (introduced in 2024), which tracks:

- the total paved surface,
- annual changes in green area percentage,
- CO_2 emission from vehicle circulation,
- and stormwater infiltration levels.

Reports are shared with the Rector's Office and used for strategic decision-making in campus planning and budgeting.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Main Campus parking (UzSWLU)

Parking Area of English philology faculty (UzSWLU)

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