



University: Uzbekistan State World Languages University (UzSWLU)  
Country: Republic of Uzbekistan  
Web Address: <https://www.uzswlu.uz/en>

### [3] Waste (WS)

Wastewater is generated as a result of the use of water for domestic and industrial purposes. They can contain various pollutants such as organic waste, chemical compounds, and microbes.

The sewerage system at the university must comply with the requirements of sanitary norms and rules. It includes the following elements:

- internal drainage systems (risers, pipelines, outlets);
- external networks (collectors, wells, pumping stations);
- treatment facilities (sand traps, settling tanks, filters).

Sewage treatment plants are designed to remove pollutants from wastewater. This reduces the burden on the environment and prevents pollution of reservoirs and soil.

Depending on the type of university and its location, the sewerage system can be connected to a centralized wastewater disposal system or have its sewage treatment plants.

### [3.6] Sewage Disposal



Sewage Disposal

#### ***Description:***

The sewerage system at the university includes a network of pipelines, collectors and sewage treatment plants. It is designed to collect and treat wastewater from residential, educational and administrative buildings of the university. The sewerage system ensures the safety of the environment and the health of students and university staff.

#### **Analysis of the system operation**

An analysis of the system's operation showed that it functions generally efficiently. However, some problems have been identified that can lead to system failures and deterioration in the quality of wastewater treatment. Such problems include:

- Blockages in pipelines due to improper use of the system or ingress of foreign objects.
- Wear and tear of treatment plant equipment due to long-term operation.



-Inefficient operation of some elements of the system due to improper configuration or maintenance.

To solve these problems, it is necessary to carry out the following activities:

1. Regular maintenance and repair of the sewerage system.
2. Training of personnel in the rules of using the system and methods of preventing blockages.
3. Replacement of worn-out equipment with modern and more efficient ones.
4. Optimization of the system operation using modern management and control technologies.
5. Monitoring the system status and timely identification and elimination of problems.

Conclusion

The operation of the sewerage system is an important aspect of ensuring safety and comfort at the university. To maintain its effective operation, it is necessary to carry out regular maintenance, staff training and equipment modernization. This will prevent possible system failures, ensure high-quality wastewater treatment, and preserve the environment.

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

<https://www.uzswlu.uz/en#>

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