



WATER RESEARCH IN SAMSACU



SAMSACU

Policy of the Department of Environmental Engineering for sustainable development of the water and sewage sector



Since 1996, the department has been under the name of the "Construction of Engineering Networks" department



Since 2005, it has merged with the department "Fundamentals of Chemistry and Ecology" and "Water supply, chemistry and protection of water bodies"



From 2022, it will be operated under the name "Environmental Engineering".



8 CiteScore

1,7 FWCI

33 CC



DEPARTMENT OF ENVIRONMENTAL ENGINEERING TRAINS EXPERTS IN THE FOLLOWING FIELDS



Currently, in 2024, 22 professors-teachers are working in the department.

- Research and development of innovative water treatment technologies and sustainable sanitation solutions are published in Scopus-based journals, as well as in local and foreign journals.
- Treatment of natural and waste water, discharge of wells
- research work is being carried out



PhD

- Water supply. Sewage. Building systems protecting water bodies; Hydrotechnics and land reclamation construction; Hydraulics and engineering hydrology;

Master's degree:

- Environmental Engineering,
- Types of construction and installation of engineering communication networks



Undergraduate:

- Environmental engineering;
- Design and operation of water supply and sewage systems;
- Construction and installation of engineering communications;

Professional education (Engineering communications); Ecology and environmental protection (by networks and sectors);



WATER CONSUMPTION IN SAMSACU



- During 2023, the amount of water used in the University for actual drinking and irrigation is 177.6 thousand m³.



- During 2023, the number of students of the University is 7244



Promote sustainable water management practices through education, research and community engagement to address water scarcity and quality issues locally and globally.

Conferences, open classes, classes for students in schools are being organized in the fields of water and sanitation.

Articles on the protection and rational use of water resources are being published in newspapers, telegram channels, and websites.

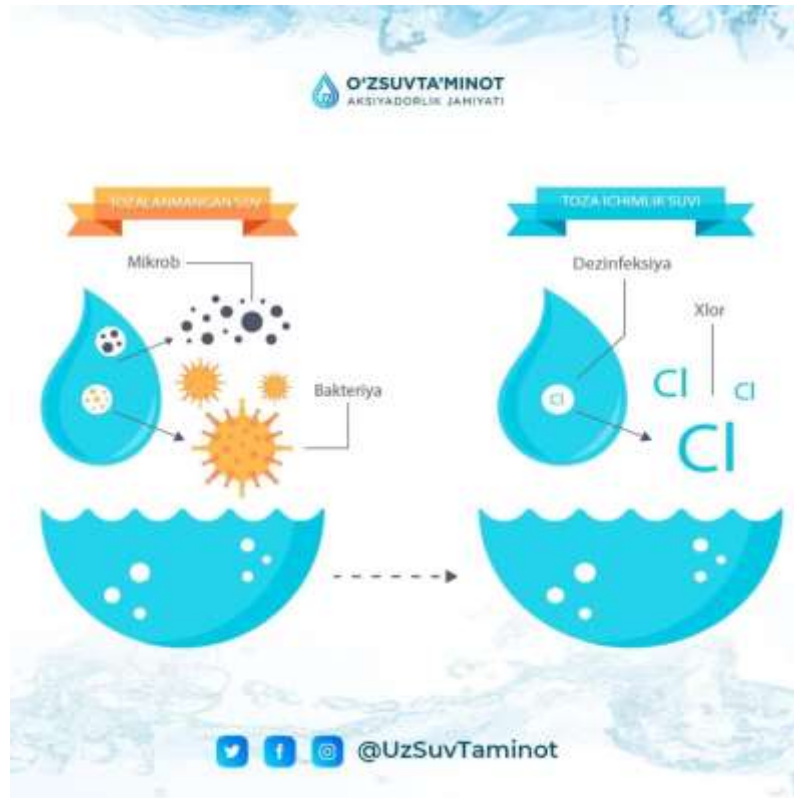




WATER PURIFICATION IN SAMSACU



During 2023, wastewater from the buildings of the University will be discharged into the city sewage system and treated at centralized wastewater treatment facilities.



Development of knowledge and technologies for wastewater treatment and reuse to minimize pollution and maximize resource recovery, contributing to the conservation of water resources.

Research of treatment technologies for reuse of wastewater from various types of enterprises (wastewater from textile factories, glass washing, and car washes).

Wastewater treatment in scientific laboratories scientific and research works are being carried out to improve the methods.

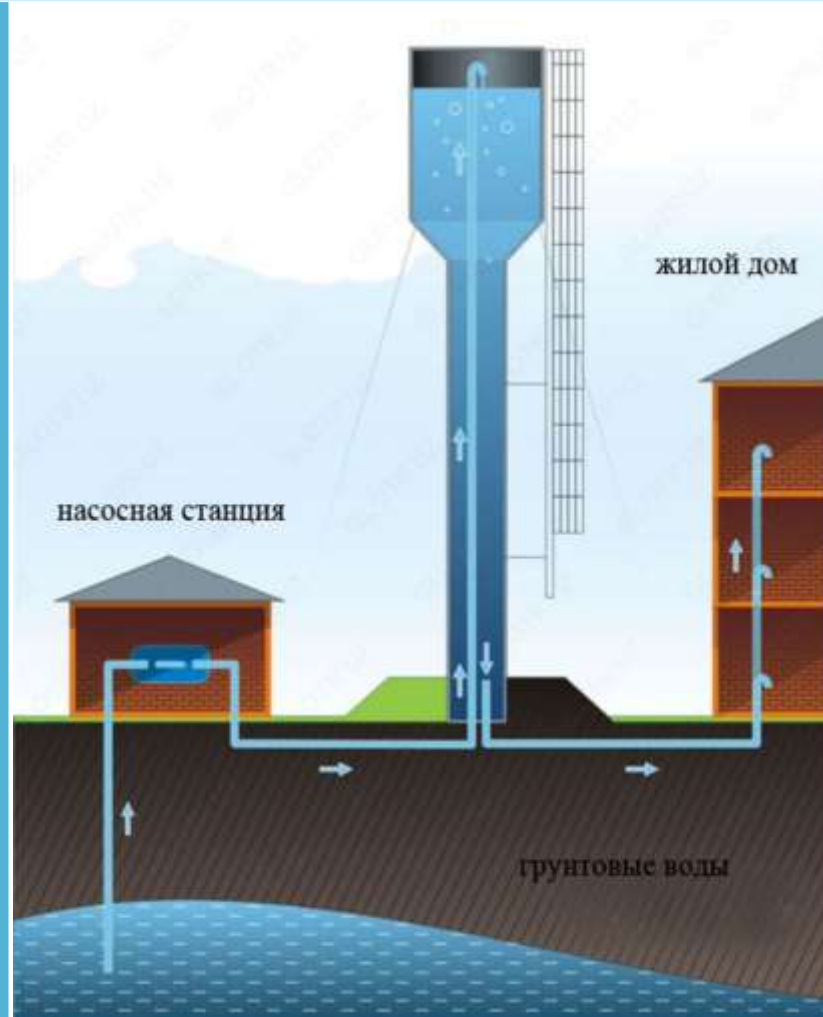




WATER PURIFICATION IN SAMSACU



- Develop partnerships with government agencies, industry and non-profit organizations to implement sustainable water and sanitation solutions and support SDG 6 goals at national and international levels
- Scientific research works are carried out in cooperation with foreign universities, professors and doctoral students are sent to foreign internships, foreign and local projects are participated in, and foreign experts are invited.
- Local enterprises, including the Department of Ecology, Environmental Protection and Climate Change of Samarkand Region,
- Work is being carried out in cooperation with Uzzuminot and several other design institutes



The water used in the university in 2023 was taken from a clean water layer 60 meters below the ground through 2 water wells, and a special anti-bacterial treatment device was installed for drinking water entering the buildings. No turbidity of drinking water was observed.





FREE DRINKING WATER IN SAMSACU



A total of 4 drinking fountains have been installed on the territory of the university for students, employees and guests to drink free of charge. Today, fountains are in full working order. Students, staff and visitors are free to drink water.



Provide students with the knowledge needed to become future leaders in environmental engineering and to contribute to the achievement of SDG 6 through educational programs focused on water and environmental engineering issues, sustainable development principles and ethical engineering practices. imparting knowledge and knowledge.

About 30 compulsory and optional subjects are conducted for bachelor's and master's education in the fields of water and environmental engineering in order to prepare specialists in accordance with world standards.

(Hydraulics, water supply, sewage networks, ecology, sewage treatment, drilling, pumping and pumping stations, reception and treatment of natural waters,



HIGHLY WATER RESISTANT PLANTING PLANTS



The water used in the university in 2023 was taken from a fresh water layer 60 meters below the ground through 2 water wells. Ecological requirements are not violated.



- More than 2,000 trees and more than 5,000 square meters of green grass were planted on the territory of the university. Mainly tree saplings that require less water are planted.
- There are planted tree seedlings and lawn areas.
- Students, employees relax in trees and green spaces.