



UNESCO Chair for Sustainable Development
Al-Farabi Kazakh National University
8(727377-33-30)
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www.kaznu.kz



№1, 2024

INTERNATIONAL INFORMATION BULLETIN



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NOTE:

- The **INFORMATION BULLETEN** has been published since 2023 once a quarter.
- The **INFORMATION BULLETEN** is pushed under the editorship of the **UNESCO Chairs** of the **Al-Farabi Kazakh National University**.
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EXCURSION TO THE «ALMATY-SU» AERATION STATION WITHIN THE FRAMEWORK OF SDG 6-CLEAN WATER AND SANITATION

As part of the implementation of the SDG 6-Clean water and sanitation, teachers of the UNESCO chair for Sustainable Development Bergeneva N.S. and Zholdasbek A.E. organized an excursion for 4th year students of the specialty "6B05202 Ecology", "6B11201 Life safety and environmental protection" to the «Almaty-Su» aeration station in order to familiarize themselves with the technological processes of wastewater treatment and responsible consumption.



It should be noted that a distinctive feature of urban wastewater is the diversity and variability of its composition, uneven flow over time both during the day and by months and seasons, as a result of which technological regimes change, which negatively affects the quality of treatment and the environmental component as a whole.

As explained during the tour, these sewage treatment plants receive the main stormwater runoff of the city of Almaty. The effluents are collected in rain-receiving wells and through closed storm sewer networks they enter the accumulative underground reservoirs of sewage treatment plants for subsequent purification.

Cleaning takes place in four stages. First, the effluents enter the mechanical cleaning shop, where the hydraulic washing and removal of the incoming solid debris is carried out, then they enter first the chemical treatment tanks, and then the biological one, the final stage is water disinfection.

This is not the first time students have been on such excursions, but every time it is very interesting. The issue of protecting water resources is very important, because water is an integral part of every person's life and, of course, we want it to remain clean. In the future, environmental students plan to connect their lives with this area and conduct water purification analyses.

During the tour, the students got fully acquainted with the treatment facilities of the city of Almaty, technologies of mechanical and biological wastewater treatment and managed to see and understand the whole process of water purification.

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