

## LABORATORY is the significant point of the practice

✖ The European Union's Water Sustainable Management Program in rural areas of Uzbekistan for 2014-2020 was launched on February 5, 2012 at the V building of the Institute. The event was organized by the Educational Laboratory "Automation of Technological Processes". It is important that the EU is being implemented within the framework of the Multi-Year Indicator Program. The goal is to promote sustainable inclusive growth in Uzbekistan's agricultural sector in changing climate conditions and to improve the efficiency of water supply and water management at the national basin and farm level. The total budget allocation for the program is 120,000 euros. On December 20, 2016, the German Society for International Cooperation (GSIC) and Tashkent Institute of Irrigation and Agricultural Mechanization Engineers signed a Memorandum of Understanding. The Memorandum of Understanding consists of three main principles for implementing the Sustainable Water Management in Rural Areas of Uzbekistan project. 1. Development of education capacity. 2. Development of technological capabilities. 3. Scientific potential development.

According to the Memorandum, modern laboratory equipment produced by German Festo Didactic Company has been brought and training is underway. It should be noted that today's laboratories are equipped with the most up-to-date equipment, leading to a new and innovative level of laboratory and science base that meets international education standards. This change contributes to the development of the institution and the organization.

With the latest technical equipment for monitoring and managing water supply, water and water supply related to functional principles of digital technology, software and hardware solutions, The issues in question refer to its practical significance. ✖

The Ministry of Water Resources of the Republic of Uzbekistan for 2017-2018 is the main partner and beneficiary of the "Sustainable Rural Water Resources Management" program. At the same time, the Ministry of Water Resources is the main "consumer" of the SJV staff, and therefore there is a great need for specialists in the specialty "Automation and Management of Technological Processes and Production" (water economy).

The systematic approach to water resource management is characterized by three main interconnected factors.

- Technological processes
- structures and devices
- automation and management.

Today, the laboratory fully meets the requirements of a new technology solution for irrigation canals, hydroelectric stations and pumping stations in Uzbekistan.

As part of these laboratories, it is possible to specify the basic elements and devices of automation, digital hardware components for modeling of computer management based on the latest software and hardware-based automated management systems.

Including:

- basic elements of digital technologies;
- device for reverse automatic control system;
- automatic water supply station;
- Automatic water treatment station;

- Automation of electric, electronic systems;
- The mechanism of implementation of the automated management system;

Elements used in the flow sensor, degree, pressure, interface, transducer and other automation.

Undoubtedly, all of the above will serve as a new qualitative step in training specialists for the water complex.



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