

# Automatization of Hydromeliorative Systems

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The Department of Automation and Technological Process Control was created in 1971 under the name "Automation and Remote Control". The founder and first head of the department was Doctor of Technical Sciences, Honored Worker of Science and Technology of the Republic of Uzbekistan, applicant for the State Award of the Shukhrat Medal, Professor Pyotr Vyacheslavovich Baidyuk, who headed the department until 1994 and laid the foundations for three specializations in personnel training for the national economy Uzbekistan, including "Automation of irrigation systems". When the department was first created, Ph.D. associate professors worked. V.M. Sidelnikov, senior lecturer A.R. Radzhabov, assistants B.F. Faizullaev, Yu.A. Getman, S.I. Kovalev, laboratory assistants S. Akishin, A. Mirdadaev. From 1993-1996 The department functioned in joint versions with other departments of the faculty. Assoc. Assoc. were appointed as managers. Sh. Zhonikulov, prof. Mamedshakhov M.E., Associate Professor Gazieva R.T., Associate Professor Vokhidov A.Kh., et al.

In 2003, on the basis of the department, the bachelor's training direction 521800 was opened - Automation and control (in water management) on the initiative of a student of prof. Baidyuka P.V. Associate Professor Gazieva R.T. and associate professor Vokhidov A.Kh. The leadership of the department and the development of the bachelor's degree direction was taken over by a student of Professor P.V. Baidyuk, associate professor R.T. Gazieva. In 2008, a student of prof. was appointed head of the department. Baydyuk P.V. Assoc. Usmanov A.M. He began work to restore independence and in 2010. The Department of Automation and Management of Technological Processes was created to train bachelors in the direction 5311001 - Automation and management of technological processes and production (in water management), as well as masters of the relevant specialty. Associate Professor Usmanov A.M. was appointed head of the department, who, together with the staff of the department, Assoc. Gazieva R.T., associate professor Vakhidov A.Kh., associate professor Ismatullaev Kh.N., associate professor Sidelnikov V.M., associate professor Nuraliev A.K., Art. Rev. Bazarov E.O., ass. Abdullaeva D.A., ass. Pirimovov O.Zh., ass. Azizova N.Sh., ass. Erzakova R.K., ass. Yadgarova D.B. created the programmatic, methodological, and laboratory basis of the department. The department specializes in training specialists for the water management complex of Uzbekistan in automation and control of technological processes in: water distribution and operation of automated control systems for water resources, automation of hydraulic structures, pumping stations, water supply, water wells, automation of technological processes of irrigation

and water accounting.

In 2013, the Department was headed by Assoc. Gazieva R.T., who gave new impetus to strengthening the educational, scientific and methodological work of the department. Under the leadership of Assoc. Gazieva R.T. and with her direct participation, there was a significant increase in educational literature in the Uzbek language for secondary and higher educational institutions in the field of automation in agriculture and water management. The laboratory base and interuniversity cooperation with near and far abroad have been strengthened. Ass. defended at the department. Pirimov O.Zh., Art. teacher Bazarov E.O., assistant Yadgarova D.B. In 2020, the department opened a new direction 5330200 - Information systems and technologies (by industry and sector). Since the same year, doctoral studies have been operating. The team has been replenished with new competent candidates and doctors of science. The scientific potential of the department was 85%. In 2022, through the efforts of the department, a specialized council for the defense of candidate and doctoral dissertations in specialty 05.01 was opened at TIIMSH. 08. - Automation and control of technological processes. And the department became the base organization for this specialty. Currently, the department has a scientific and technical seminar in the specialty 05.01. 08. - Automation and control of technological processes. In 2023, a Ph.D dissertation was successfully completed in this specialty by a graduate of the department's bachelor's, master's and doctoral studies, E. O. Ozodov, under the guidance of prof. Gazieva R.T. The scientific direction of the department today is "Research and improvement of methods and means of automation of technological processes of water management systems" and "Intelligent systems in water and agriculture". Currently teaching at the department: Head. Department Ph.D., Professor R.T. Gazieva, Doctor of Technical Sciences, Professor M.A. Ismailov., Ph.D., Professor Usmanov A.M., Ph.D., Professor A.Sh.Arifzhanov, Ph.D., Associate Professor A.S.Kabildzhanov, Ph.D., Associate Professor E.O.Bozorov, Ph.D., Associate Professor Sh.K. Rakhmonov, Ph.D. .technical sciences, associate professor Ubaydullaeva Sh.R., candidate of technical sciences, associate professor D.B. Yadgarova, Ph.D., Associate Professor Ozodov E.O. assistants: D.A. Abdullaeva, R.K. Erzakova, A.A. Abduganiev, Okhunboboeva Ch.Z., Imamova N.Sh., A.A. Akbaraliyev.

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