

Innovative Approach in the demonstrative lesson

Head of the Department of "Higher Mathematics" Prof. Khudayarov delivered the open lecture on the differential equations of the subject "Higher Mathematics" for the students of the faculty of MLR. The lecture process was based on an innovative approach. The report outlines the ways in which natural processes and engineering are solved by differential equations. Specifically, the mathematical model of the underground and surface tube vibration processes in the short-term increase in the volume of water in mountain river or water reservoirs as a result of heavy rainfalls, as well as the impact of one or two phase fluids in the pipes was built. The mathematical modeling of processes is based on the differential equations. The solution of issues considered by the "Delphi" computer program is graphically illustrated. During the open lesson the theme is explained by practical questions and the graphical (numerical) solutions, created by professor-teachers of the department and computer programs registered by the Intellectual Property Agency of the Republic of Uzbekistan, was founded. At the extraordinary meeting of the department, it was decided to introduce active methods of teaching and computer programs created during the open lecture by B.Khudayarov on the topic of lectures and practical training in all educational areas done.



Report by F.Turaev