

Online chemistry teaching at BSTU during the coronavirus pandemic

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The study is aimed at analyzing the experience of using information and communication technologies in the process of teaching chemical disciplines at the Belarusian State Technological University during the coronavirus pandemic. In a very short time, teachers were forced to adapt the educational process to online learning. The results of the implementation of information technologies at the Department of Chemistry, Technology of Electrochemical Production and Electronic Engineering Materials are considered.

To implement distance learning technologies at the University there is a Learning Management System; it is based on Moodle, where students can access learning materials and feedback from teachers. The main purposes of applying the Distance Learning System at the University were creating opportunities for quality educational services, involving effectively the variety of IT means in the educational process, developing students' motivation to learning, and continuous self-education via modern information and communication technologies. We analyzed learners' perceptions of online learning, their ability to absorb information and use e-learning platforms. An anonymous online survey of students was conducted using the Google Questionnaire Forms service. Data was collected from 132 students (Fig.).

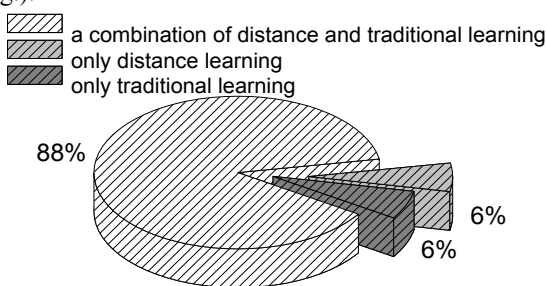


Fig. Respondents' answers to the question:

Do you think distance learning is the necessary form of the educational process?

According to students, the most effective use of information and communication technologies is through colloquia (75%), seminars (56%) and lectures (43%). The degree of correlation between the students' examination score of and the students' rating score based on the results of distance learning is very high. Online learning technologies have proven to be indispensable in organizing the educational process with students of the Faculty of Extramural Studies.