



## Theoretical Application of Information and Communication Technologies in the Process of Teaching Disciplines

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**Abstract:** The article analyzes the state of implementation of information and communication technologies (ICT) in the organization of e-learning in higher education students using the experience of specialties. The urgency of e-learning technologies application and related information and communication technologies is proved.

**Keywords:** e-learning, communication, Informatization, computerization.

**Introduction.** The modern period of human development, including education, can be defined as the transition from industrial to information society, the emergence of which is associated with the information revolution, the development of information and communication technologies that change the social life of everyone, including higher education. One of the focus tasks of modern higher education is the training of professional`s staffs of applying the latest information and communication technologies in professional activities. In the current context of the global pandemic as well as at a time when students are trying to combine learning with work as well as learning simultaneously in several higher education institutions e-learning becomes especially relevant. In this regard, to improve the training of professionals need to optimize and update the introduction of information and communication technologies in the educational process of higher education. It will be noted that solving these problems in the modern information space is impossible without the integrated implementation of information and communication technologies. Pay attention that information and communication technologies are defined as a set of various technological tools and resources used to ensure the process of communication and the creation, dissemination, storage and management of information.

These technologies are understood as computers, Internet, radio and television programs, telephone communication, as well as technologies for developing information systems and building communication networks, which involves psychological and pedagogical support of design, development, implementation and support. Informatization and computerization of education in the modern globalized world involves both the training of research and teaching staff to use information and communication technologies, and the student's willingness to work independently, in particular disciplines.

**Methods.** To solve the tasks, the following set of research methods was used: theoretical - analysis of scientific sources, pedagogical, psychological literature and teaching materials, comparison; empirical – generalization of pedagogical experience; analysis of products of activities (analysis of work programs and curricula).

**Results.** Without information and communication technologies, it is impossible to imagine a fullfledged life of both a scientific and pedagogical worker and a student lately. On this evidence, students of future tourism professionals believe that the most successful in their professional

activities will be a person who has up-to-date information and uses modern computer technology to obtain, evaluate, analyze and predict. Informatization has significantly influenced the educational process in higher education, which due to the use of information and communication technologies has risen to a qualitatively new level. Nevertheless, the introduction of information and communication technologies in the learning process creates new opportunities for research and teaching staff. They do not replace the teacher, but should only be a powerful tool in his hands with a large resource of use. The modern information and communication technologies have an impact on the educational process by changing the scheme of knowledge transfer and teaching methods. That is to say, their introduction into the education system not only affects educational technologies, but also introduces new ones into the educational process.

At same time of most scholars regarding that, the informatization of modern tourism education is to change the content, methods and organizational forms of educational work in the formation of a "new" school, which is designed to solve the problem of training Tourism to live in the information society.

Information and communication technologies are used at different stages of classes for students majoring in Tourism to illustrate the material; use of training programs; performance of independent and creative tasks; use of a computer for statistical calculations and plotting; organization of project activities of students as future specialists in tourist services. In connection with the data of most researchers, the introduction of computer tools in the educational process has expanded the theory and methods of education with new teaching aids.

The main activity of application of information and communication technologies in the teaching of tourism disciplines can be:

- Development of methodical and didactic materials (presentations, images, animation, etc.);
- Management of the educational process of students majoring in education
- Purposeful search of educational information on the Internet; • Conducting an experiment using computer models;
- Mathematical processing of experimental results;
- Organization of intellectual leisure of students;
- Development of web-resources for educational purposes (distance learning, mass online courses);
- Development and implementation of pedagogical software.

The main components of information and communication technologies- computer technology with software can perform some functions of the teacher: submission of new material, feedback control and processing of information on students' educational activities, etc.

Internet-methods are effective, which allow to obtain significant advantages in the organization of educational activities of students majoring, namely:

- Providing the ability to independently search for the required information among electronic sources;
- Use of cloud technologies to store educational information;
- Ensuring communication between students and research and teaching staff;
- Use of various forms of control of students' academic achievements;
- Holding competitions, webinars and other forms of educational and scientific activities. The use of information technology in higher education depends on high-quality educational software and its use. It should be noted that information and communication technologies in the process of teaching disciplines should be used in combination with different forms of education in order to obtain maximum results.

**Discussion.** The effectiveness of the use of information and communication technologies in the teaching of tourism disciplines depends, inter alia, on the availability of appropriate equipment, high-quality educational software and its methodological and planned use.

In this case, the software and pedagogical tools used in the educational process must meet the list of requirements for this type of software. In this aspect, we are talking about stability (detection of input errors), usefulness (interactive help to the user), simplicity (use of several control methods), clarity and controllability (the ability to determine the place in the program). Within the teaching of tourism disciplines, the researcher can also use an electronic textbook, provides, in addition to mandatory training tasks, the following specific benefits:

- Intensification of educational activities through the combination of many tools in one;
- Can be used during group, individual, collective study of the material;
- Provides creative work of students;
- Forms an active, competent person who has a certain level of information culture; • Adjusts to work through a creative vision of the content of the lesson.

**Conclusion.** Thus, considering the elements of information and communication technologies, it should be emphasized that in education an important condition for successful integration of technologies is the training of teachers and professionals who operate systems and tools of the new integrated learning technology. Each participant must have the necessary information literacy and understanding in the use of information and communication technologies.

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