



## An Integrated Approach to In-Service Training Efficiency Factors

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### ABSTRACT

This article defines informatization of the education system in our country is a global social process, the need for creative work, focused on the creative, targeted use of information resources: data collection, processing, use of constantly evolving scientific and methodological, creative approaches, information, pedagogical technologies, education, integration of production technologies. Teachers and educators working in the system of in-service training, mastering modern information and communication technologies, tools, creative approaches in pedagogical activities systematically improve their knowledge, skills and abilities.

### Keywords:

information technology, pedagogical technology training, skills, knowledge, tools, creative approaches

The Law of the Republic of Uzbekistan "On Education" states: "... the introduction of advanced forms of teaching and new pedagogical technologies, technical and information means of education in the educational process." - marked. The study and analysis of scientific and methodological research on the system of continuing education shows that the introduction of modern pedagogical and information and communication technologies, training and retraining of teachers is one of the factors in the quality and effectiveness of education. improves creative, communicative, reflective activity. (Integration - the interdependence of educational disciplines, forms of learning, merging, assimilation, merging to form a new, stable generalized - a holistic form. Latin "integratio" - restoration, collection, completion;

The fact that information and communication technologies are becoming more complex and perfect over time demands that teachers be able to use modern technologies creatively,

purposefully, and be cultured in working with information.

A teacher with sufficient knowledge in the field of information and communication technologies can use creatively and effectively in the educational process in the search, receipt, storage and transmission of information from electronic media, as well as the use of the Internet.

It is expedient for the teacher to acquire relevant knowledge, skills and abilities in the field of modern information and communication technologies, as well as to implement scientific and methodological approaches:

In theoretical knowledge: basic computer programs: knowledge of storage and processing of information in a text editor, spreadsheet and database; knowledge of electronic methods of information transmission, such as searching for and retrieving information about his professional activities from the Internet, e-mail, Ziyonet, eduportal.uz sites and videoconferencing; mastering the scientific and methodological

aspects of the development of innovative activities of teachers in the field of information and communication technologies; understand the accuracy and reliability of the information obtained and follow the principles of legal requirements when using interactive, pedagogical technologies in the educational process;

Skills: search, collect, create electronic information, systematize the collected data, distinguish real information from aggressive virtual; comprehensively understand the collected information and be able to distinguish and use from them the appropriate tools (presentation, graphics, diagrams, etc.); search,

find websites related to the field, creative approach to forum and e-mail, Internet services; be able to use information technology in creative pedagogical activities;

Skills: ability to use information technology in individual and group work, to determine the scientific and methodological level of the collected information; Responsibility for using the Internet, strict adherence to the rules of touch; should be able to focus on independent development of information and communication technologies through participation in cultural, social and professional activities



There are many opportunities to use educational materials in the form of presentations, video lessons in the organization of the educational process using effective forms of traditional teaching methods on the computer. Significant reduction of time, space and financial barriers to the dissemination of information on the Internet is of great importance for the education system.

Joint short-term creative seminars - trainings on the application of information and communication technologies in the teaching process in professional development, are effective in improving the professional, scientific and methodological skills of teachers, provide an opportunity to learn from colleagues and foreign best practices. (Creativity - from English "create" - "creation",

"creative" creator, creator. Pedagogical training - a practical form of strengthening skills, methods, specific effects on the basis of exercises and repetition; a set of methods of

intensive influence on the person; group and individual impact practice; form of border education.)



Innovative technologies are based on variability, flexibility, regularity, periodicity of algorithm elements in the implementation of the procedure, the possibility of repetition, the ability to replicate it in other conditions - with the participation of other objects and subjects.

Based on the management goals and objectives of technology, strategic directions in education are identified and the possibilities of setting diagnostic goals, planning the pedagogical process, design are considered



The effectiveness of innovative pedagogical technologies must be acceptable in terms of results and expenditures, operating under certain conditions. (Optimality is the ability to achieve high results with the least amount of effort; optimal technology means the advantage at the level of opportunity in the current environment.)

The teacher regularly fully and qualitatively masters information, communication and innovative pedagogical technologies, implements them in the educational process, ensures that his professional activity is in a creative, innovative category.

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#### Internet resources:

1. [www.uzedu.uz](http://www.uzedu.uz)
2. [www.edu.uz](http://www.edu.uz) -
3. [www.avlonie.uz](http://www.avlonie.uz)
4. [www.ziyo.uz](http://www.ziyo.uz)