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So, we had been studied data available in the literature on creative pedagogical thinking. The creative pedagogical thinking is the difficult integrated formation demanding corresponding methods of its studying.

The important stage of professional development of the person is the period of vocational training which assumes purposeful development of knowledge, practical skills and abilities, formation of valuable representations, professional-important qualities.

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***Shoirahon B. Ahmedova,***
*Department head, Regional centre of retraining and improving professional skills of workers of national education, Z.M. Bobur Andijan State University;*

***Abdukahhor A. Abdukadirov,***
*PhD, professor,*
*Nizami Tashkent State Pedagogical University*


## Role of Information Technologies in Developing Professional-Pedagogical Thinking of Computer Science Teachers


***Key words.*** *Information communicative technologies, algorithms of gathering, storage, processing, representation and sending information, mechanization industrial, administrative process, social, economic and cultural problems, creation of software.*



***Annotation:*** *as is known, in the modern world one of the major and main factors of influence on quality of formation is using of means (information communicative technologies) taking into account their didactic properties and functions and according to their role and places in educational process for decision of concrete didactic problems. Information and communicative technologies (ICT) is the generalizing concept describing various methods, ways and algorithms of gathering, storage, processing, and representation and sending an information.*


Technology is a complex of the scientific and engineering knowledge realized in receptions of work, sets of material, technical, power, and labor factors of manufacture, ways of their connection for creation of product or the service, meeting certain requirements. Therefore, technology inseparably linked with mechanization industrial or non-productive, first of all,

administrative process. Administrative technologies are based on application of computers and the telecommunication techniques.

According to definition, information technology is a complex of the interconnected, scientific, technological, engineering disciplines studying methods of the effective organization of work of people, occupied with processing and information storage; computer facilities and methods of organization and interaction with people and industrial equipment, their practical appendices, and also the social with all it social, economic and cultural problems.

Information technologies demand difficult preparation, the big initial expenses and the high technology techniques. Their introduction should begin with creation of software, formation of information streams in systems of preparation of experts.

Information and communication technologies open real prospects for education system perfection, namely: wide introduction of means ICT for evident, dynamical representation of the educational information with using of video images, a sound and remote access to information resources.

Continuity and continuity of computer training at all levels formation forms - day, correspondence and remote - at the expense of computer support of all subjects and disciplines of educational process. Creation scientifically and methodically proved education system on the basis of new information technologies.

- Advantages of using ICT in forming before traditional training:
- Information technologies considerably expand possibilities of presentation of the educational information.
- Application of color, drawing, sound, all modern means of video equipment allows to recreate real conditions of activity?
- The computer allows raising essentially motivation of students to training. The motivation rises at the expense of application of adequate encouragement of correct decisions of problems?
- ICT involve pupils in educational process, promoting the widest disclosing of their abilities, cerebration activization?
- Using ICT in educational process increases possibilities of statement of educational problems and management of process of their decision. Computers allow building and analyzing models of various subjects, situations, phenomena.
- ICT allow changing qualitatively the control of activity of pupils, providing thus flexibility of management of educational process?

The computer promotes formation of reflexion on pupils. The training program gives the chance trained to present visually result of the actions, to define a stage in the problem decision on which the error is made, and to correct it.

Information technologies of training assume using along with computer techniques specialized software. The software of educational appointment is software in which some subject domain where technology of its studying is realized is recreated; conditions for

realization of various kinds of educational activity are created. Such software functionally supporting various kinds of educational process, have received the name of pedagogical software.

Now there is a considerable quantity of various classifications and typologies of pedagogical software.

On methodical appointment as pedagogical software can act:
- Computer textbooks (lectures);
- Programs-training apparatus (self-instruction manuals);
- Supervising (test covers);
- Directory (encyclopedias);
- Imitating;
- Modelling;
- Demonstration (slide or video-films);
- Training-game.

Development of information technologies becomes today the major factor in the world community life. Their distribution will qualitatively transform life of society and causes revolutionary shifts in economic, social, cultural and other spheres.

Information technologies develop constantly and improved, giving all new possibilities for improvement of quality, decrease in terms of carrying out, simplification of work. Studying of world experience of development of information technologies has led scientists to comprehension of necessity of operative familiarizing with the given process.

In the modern theory and practice of the higher pedagogical school the special importance is got by a problem of vocational training of experts of educational sphere of the new formation, possessing wide general and professional culture, consecutive is professional-pedagogical thinking, free from the stereotypes which have developed in the past.

Specificity of the modern approach to the education system organization in many countries of the world is caused by an originality of development of information society, society of high technologies. Knowledge becomes the basic values of the information society focused on wide using of the newest information technologies, independence of thinking, ability to work with the information and to accept argument decision.

At mastering by knowledge extremely important as they will be organized and with what help of methods are acquired. In the centre of educational process there is a pupil with its individual abilities and interests. The teacher will organize its activity, being guided on formation of independent critical thinking which assumes consideration, research of the studied phenomenon from the various parties. Thus the role of the teacher becomes more difficult, demands knowledge not only the subject, but also features of psychology of perception, judgment, dialogue in the course of informative activity, ability to use various pedagogical technologies, tutorials for the organization of activity of pupils.

The computer considerably expands possibilities of representation of the information. The main methodical problem of teaching is displaced from that, «as it is better to tell a material», to that, «as it is better to show it».

I.V. Robert as one of the most significant didactic purposes who is most effectively realized at using of software of educational appointment, marks computer visualization of the educational information and defines it so:

• computer visualization of studied object - evident representation on the screen of the computer of object, its components or their models;

Computer visualization of studied process - evident representation on the screen of the computer of the given process or its model, including hidden in the real world, representation of graphic interpretation of investigated law of studied process

By preparation of the future teachers of computer science one of means of ICT –an interactive board is used, the interactive course on discipline «Theory and technique of training to computer science» in which attempts of introduction of technology of visualization have been made is developed, and also is used the electronic textbook at the given course with which students can independently prepare for employment.

Realization of principle of presentation by means of ICT simultaneously allows carrying out a consciousness and activity principle as at construction of educational process by means of an interactive board pupils perceive is better, understanding essence of studied material, intellectual activity of the trainee raises.

Information-communication technologies allow connecting processes of studying, fastening and control of mastering of teaching material which at traditional training are broken off more often. ICT give the chance to individualize in the big degree training process, reducing face-to-face kinds of work and increasing a share of individually-group forms and training methods. Also ICT promote increase of motivation of training, development of creative thinking, allow to save school hours; interactivity and multimedia presentation promote the best representation of the information and, accordingly, the best mastering of material.

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**Azizkhon B. Rakhmonov,** aziz_bositovich@mail.ru
PhD student, Uzbek State University of World Languages;

**Sunatulla F. Abdirasilov,** Sabdirasilov@mail.ru
PhD, professor, Tashkent State Pedagogical University;

**Yulduz O. Boykobilova,** Sabdirasilov@mail.ru
Teacher, School № 257 Tashkent;

**Parizot A. Baykabilova,** Sabdirasilov@mail.ru
Senior lecturer,
Karimov Tashkent State Technical University;

**Mekhriniso D. Pardaeva,** pmd-rtm@mail.ru
Scientific applicant, T. N. Kary Niyazi Uzbek
Research Institute of Pedagogical Sciences;

**Feruz Gaffarov,** shoxrud@gmail.com
Doctoral student, Institute for Advanced Studies and
Retraining System of Secondary Special Vocational Education;

**Dilfuza N. Ashurova,** dilfuz_2007@mail.ru
Senior lecturer, Navoi State Pedagogical Institute;

**Gulnoza R. Yusupova,** yaxshifarzand@mail.ru
PhD, doctor's degree aspirant, Kori Niyozi Uzbek Scientific
Research Institute of Pedagogical Sciences;

**Lalakhan Kh. Bektursynova,** yaxshifarzand@mail.ru
Independent researcher,
Tashkent State Pedagogical University;

**Nargiza Z. Madaminova,** gulyamovazarina@mail.ru
PhD, Nizami Tashkent State Pedagogical University;

**Shoirahon B. Ahmedova,** gulyamovazarina@mail.ru
Department head, Regional centre of retraining and improving
professional skills of workers of national education,
Z.M. Bobur Andijan State University;

**Abdukahhor A. Abdukadirov,** gulyamovazarina@mail.ru
PhD, professor, Nizami Tashkent State Pedagogical University;

**Gulsanam Kh. Khasanova,** kuzinka1982@bk.ru
Senior lecturer,
Andizhan retraining public education personnel and in-service
training regional center, Andizhan State University;