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# FORMATIONS OF INFORMATION COMPETENCE OF THE TEACHERS IN A RATE IMPROVEMENT OF PROFESSIONAL SKILL WITH APPLICATION BETWEEN SUBJECT COMMUNICATIONS

### Aminov I. B.

Senior lecturer, faculty of applied mathematics and Computer science, Samarkand state university, Uzbekistan, telefon: +998915406178 istam.aminov@inbox.uz

## Tugalov R. G.

Teacher, centre for refresher training and retraining of the pedagogical staff of the Samarkand area, Uzbekistan telefon: +998945355274

RavshanTugalov1984@gmail.com

**The summary.** In job is considered methodical questions and major factors of development of formation of information competence of the teachers in a rate increase of qualification with application of modern technology of training

**Key words**: information competence, major factors of information competence, technologies of training, efficiency of use of modern technology of training for formation of information competence of the teachers.

### Introduction

In conditions of transition to an information society the requirements to professional training of the teacher, in particular to a level his professional competence raise. One of major competence of the modern teacher is the information competence.

Last years the prompt penetration of mathematics and computer technologies in different spheres became the come to pass fact. In this connection there are completely new tasks and before education. It is necessary so to organize process of training, that teachers were able to apply modern technologies of training. For this purpose they should receive of knowledge from integration of employment of mathematics and computer science.

Now tasks about integration of mathematics and computer science becomes extremely urgent for maximum education - in connection with urgent activity of aspect of perfection of the contents of education, and also in view of the tendencies determined by transition to an information society. For this reason the special urgency is got with questions, in various subject domains appreciably depend on the answer on which directions of perfection of the contents of education, and first of all - mathematics and computer science [1].

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Between subject communication is a modern principle of training, which influences selection and structure of an educational material of a lot of subjects, strengthening system of knowledge of the teachers, makes active methods of training, focuss on application of the complex forms of organization of training, providing unity of educational process and formations of information competence of the teachers [2].

The information competence of the teacher at the present stage, is understood, how his (its) readiness and ability independently to use modern telecommunication technologies in pedagogical activity for the decision of a wide circle of educational tasks and to project ways of improvement of professional skill in this sphere.

Information competence of the teachers we shall understand an obligatory component of professional competence of the teacher, which defines readiness and ability it effectively to decide professional tasks, according to stages of pedagogical activity, means of modern computer technologies, in view of means and forms of information job [2].

Means of modern computer technologies we shall understand program, hardware-software both means and devices functioning on the basis of computer engineering, and also modern means and systems of processing of the information, information exchange ensuring operations under the tax, accumulation, storage, processing, transfer of the information and opportunity of access to information resources of computer networks.

Most complete will be definition: the intersubject communications are a pedagogical category for a designation synthesizing, of integrative of the attitudes(relations) between objects, phenomena and processes of reality received the reflection in the contents, forms both methods of educational process and carrying out educational, developing and bringing up functions in their limited unity.

With the help of multilateral intersubject communications not only at a qualitatively new level the tasks of training, development and education of the students are decided, but also the base to complex vision, approach and decision of complex problems of reality is pawned. For this reason the intersubject communications are the important condition and result of the complex approach in educational process.

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The purpose application intersubject communications of computer science and the mathematics in a rate improvement of professional skill are to generate at the teachers information competence, skill to transform in practice information objects with the help of means of information technologies. These as allow to show communication of subjects, learn(teach) to apply in practice theoretical knowledge, fulfil skills of job on the computer, make active pedagogical activity of the teachers, stimulate to their independent purchase of practical knowledge. In a rate improvement of professional skill each teacher works actively and keen&, at the teachers the inquisitiveness and activity develops.

For formation of information competence of the teachers with application of intersubject communication of computer science and mathematics is carried out:

- integrated employment;
- decision of mathematical tasks on employment of computer science;
- study adjacent with mathematics by that;
- registration of the abstracts, performances(statements) on subjects, materials to employment(occupation).

By one of the factors promoting development of information competence of the teachers in process improvement of professional skill, the integration of disciplines "mathematics" and "computer science" acts on the basis of computer technology.

Integration as means of training should give students that knowledge, which reflect connection of separate parts of the world as systems to learn to perceive the world as a single unit, in which all elements are interconnected

The basic requirements to employment(occupation) with between subject communications(connections):

- the employment(occupation) should have the precisely formulated task;
- the high activity and interest of the pupils should be supplied;
- the intersubject communications(connections) should promote understanding to the students of essence of investigated concepts and phenomena;

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at the end of employment(occupation) on the basis of intersubject
 communications(connections) it is necessary to formulate conclusions..

The activity in a direction of integration is spent within the framework of the program of study of this or that software or several themes. The theme of the project is set by(with) the teacher, together with the students builds the script, on which the action will develop. During job above a theme the teacher methodically makes by the student to a problem, at which decision there is a necessity for new skills new concepts etc. the Teacher can prompt new sources of the information, and can simply direct an idea of the student in the necessary direction for independent search, for example, in a network Internet.

The mathematical methods are used in the decision of tasks for processing results of measurements, in management for a quantitative substantiation of the accepted decisions, development and automation of labour-consuming jobs. Thus from the teacher it is required to know not only mathematical methods of account used for the decision of tasks of professional activity, but also ways of their realization by means of tool computer technologies.

Having information competence, the teacher not only aspires to use of information technologies in the job, but also simulates and designs pedagogical technologies.

For an effective utilization of opportunities of information educational environment the teacher should correspond(meet) to the following requirements:

- to own bases of job on the computer, and also to have access to information educational space and to be able it(him) to use;
- to work with multimedia the programs;
- to know bases of job in the internet, become for the pupil a conductor in development the internet and to train to their effective utilization of information resources for the education.
- for use of means of information technology in the activity the teacher owes:
- to know about existence of popular sources of the information and to be able by them to use;

- to be able to understand and consciously to use the various forms and ways of representation of the data in the verbal, graphic and numerical forms;
- to own methods of the analysis and synthesis, to be able to estimate reliability and practical utility available given with the various points of view, to use them for the decision of concrete practical tasks.

Besides the intersubject communications(connections) of computer science and mathematics are carried out at registration of the abstracts, performances(statements) on subjects. Creation of electronic presentations to employment(occupations), performances(statements) at scientifically practical conferences.

Use of applied tasks at realization of employment(occupations) allows to raise(increase) not only level of mathematical preparation, but also renders influence on development of information competence of the teacher, that is a necessary condition of preparation of the competent experts for introduction of means of tool computer technologies in educational process.

## Literature

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