Possibilities of Programmed Educational Technology in Improving the Efficiency of Teaching Programming Languages in the Continuous Education System

Ravshanova Gulhayo¹

Abstract: This article presents suggestions and recommendations regarding the use of programmed educational technology in increasing the effectiveness of teaching programming languages in a continuing education system.

Key words: programming, pedagogy, psychology, cybernetics, computer, information technology, motivation.

Today, due to the introduction of modern education, educational tools, increase the effectiveness of science teaching and reader - students kompetentsiyalarini creating form is required to establish a new approach [1].

Therefore, the revision of the theory related to education, new opportunities for them, that is, the arrowuvchi-designed to enhance the creative abilities of the students and requires the introduction of technology education is the formation of kompetentsiyalarini. One of the new technologies required in the present stage of development of pedagogical science, technology, programmed learning.

Programmed education technology – education and the recipient of this (who replace her or machine learning) transactions by providing pre-configured application on a study [9]. That is, the person directing the reader to them, technology is aimed at kompetentsiyalarini form.

Today, the reader is directed to the person have been instrumental education [2]. This reader-refers to the comprehensive development of the students. Each reader-student into his inner world, his way of thinking, experience, activities, and experiences that refer to it is very important [3]. Reader-how and why to make such students must understand that. This connection is programmed with reader education technology-oriented education to the students and allows them to deliver the combination of fills in the level of knowledge required.

Therefore, programmed learning technology reader-used by independent mastering knowledge and training in the fulfillment of assignments allows you to create tadlabalar. In turn, knowing the accuracy of assignments, students teaching-make sure that the master data. Consequently, the reader is programmed education-a negative attitude to learning and improve the motivation of students, i.e. the failure to understand wrong due to significant gaps in knowledge allows you to fully eradicate. Training and education offered timely information about and the correction and improvement of programmed put allows to solve the problem.

One of the difficulties in the professional activities of the teacher is pleasing master in varying degrees of reader-effective system to communicate with students is being developed. Reader-one of training data assures the rapid development of some students, but not perfect. Some are too fast, too deep. Also, some students study very slow and hokozo data. At the secondary level teachers often require the reader pays attention to the student. As a result, the reader-in the education of students with various problems come out.



¹ Navoi state pedagogical institute Information technologies in education the direction magistranti

One of the solutions of problems like this, in the system of continuous education science, teaching science, including computer science the introduction of technology education should be programmed to a series of incoming. "This technology through the use of training-mastering data speed individuallashtirish reader that allows students o'rganguncha each topic was repeated again. Thus, the reader-students control the pace of learning on their own, without immediately achieved the result in the correctness of the answer, the subject teach students to: approach with interest and understanding you will. This means that the feedback between the giver and the recipient is saved of education" [4].

Programmed to look into the history of technology education have been working with this technology, pedagogy 50-60 years of the twentieth century, appeared and formed at the junction of psychology and cybernetics. Its founder, american psychologist, B.F.Is skinner. Taking advantage of this technology and the achievements of experimental psychology by scientists increase the effectiveness of the management of the educational process achieved [9].

Initially programmed to only particular elements of teaching, basically, control knowledge, tips, and training for use started. In recent years the idea of programmed learning a new technical basis, that is, education in the form of electronic restoration began. New technical training process is almost fully automated, very free communication between the reader and the system allows you to build read it. In this case, the teacher's role is mainly to develop a training program, set up, fix and improve comprehension is to expose. With many years of experience, it is confirmed that, programmed learning, especially on the computer to learn not only to read, but also the reader-increases motivation and creative ability of the students increases [10].

Thus, programmed learning science, technology, including "Dastrlash language of science" teaching to the purpose of use in increasing the effectiveness of mvofiq is listed. Because today, the idea of programmed learning is to develop the remains associated with the achievements of information technology. "This defines the general requirements of the management of the educational process. This training program requirements of the education process in the implementation of the specific characteristics of the cognitive psychological-pedagogical sciences is based on information" [4]. However, some experts in the development of this type of training not only to the achievements of the science of psychology (one-sided psychological side), while others only information technology (one-cybernetics) rely on the experience of will. This is usually empirical direction in the practice of teaching is based on practical experience in the development of educational programs. Thus, only data is obtained from cybernetics and psychology in particular [6, 9].

The general theory of programmed learning training-mastering the programming process is based on the data [7]. This approach of studying programming languages cannot fully comfortable and perception, which is open to a certain amount of information to learn in a holistic cognitive radios.

Today, we programmed learning when the training device (computer, programmed textbooks, film simulyatori and others) operated mastering programmed using the training data understanding. Programmed and operated a process is carried out as well in the study of education offered, because of training data is small, the amount which is to be in simple terms would be accepted. Mastering them is provided in series to the reader. Examine out the amount of each, after the check is held and studied the data assimilation-keyingisiga I was. The stage of studying this presentation, assimilation, and check in [7, 9, 10].

According to a programmed learning technology to provide opportunities like this feature, there are three main forms: 1. Linear; 2. Be tarmoqlanish; 3. The mixture.

Linear control function block of the program of training data with the sequence of small changes. Thus, the reader should give students the correct answer, sometimes it can be several must choose one of them. If the answer is correct you, it gets a new education information, if the answer is wrong if you re-examine the initial data are invited to. Tarmoqlangan because it is different from the linear program to control her vocation in case the reader gave the wrong answer, the correct answer is the new part of data and educational information to enable you to get additional training can be given. The program combines linear and mixed at tarmoqlanychini dast.

Programmed learning another opportunity - is to expose the development of comprehension is full knowledge. Upon the completion of established goals based on identifying a diagnostic on this topic, is to be part of the training data. Then check produces is in the works (the sum of the elements of education), and then to read and organized. Organized reader to read-educational elements and themes by students, full o'zlashtirguncha is performed [8].

At the same time on programming training has a number of advantages: less data through mastering simplicity; mastering speed reader-are chosen by the students; provides high results; mental action is the development of rational methods; develops logical thinking ability.

Along with the above advantages of programmed education technology, has a number of disadvantages, including: education does not contribute to the full development of independence; takes a lot of time; just take off cognitive issues of integration applies to an algorithm; algorithm-specific and does not contribute to the to possess knowledge provides new adopters. In the meantime, will hinder the formation of cognitive activity to learn effective algorithmlashtirish extreme.

Conclusion words in the giver and the recipient of direct communication between the programmed education subjective factor in the case of the registration of the educational process at the maximum level of no as an attempt to look. At the present time it is believed that this approach is justified itself. His be applied has shown that the educational process of complete automation is not possible, the reader and the role of teachers in the educational process-students dialogue is left to rule. At the same time, the development of programmed learning and distance education computer technology increases the role of theory in educational practice.

Therefore, in the system of continuous education of the reader-the student dastrlash studying languages, and programming issues using the example ulradan teaching, and self-assessing dastrlashtirilgan should independently use technology to education.

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