# METHODS OF ACHIEVING EFFICIENCY IN BIOLOGICAL SCIENCE TEACHING

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**Abstract:**This article discusses ways to improve the effectiveness of teaching biology. In the current educational system, the new concept-pedagogical technology of acquiring knowledge and the ways of organizing students' cognitive activities in increasing the educational efficiency in the teaching of biological science are analyzed.

**Keywords:**Biology, new concept-pedagogical technology, technology, method, cognitive activity, modern education.

## INTRODUCTION

After Uzbekistan gained independence, the attention to education increased even more. Currently, the modern education system is used, and modern education in biology is an unconventional way of organizing lessons, and its important feature is achieving a clear, effective goal. Unlike traditional educational technology, non-traditional educational technology creates conditions for the development of students' cognitive abilities, special attention is paid to their independent work, cognitive activities have a searching and creative character.

## MATERIALS AND METHODS

It is known from biology that our ancestors also conducted a number of researches on the improvement of education based on pedagogical technologies. The great scholars of the East, such as Musa al-Khorazmi, Ahmed al-Farghani, Abu Nasr Farabi, Abu Rayhan Beruni, Mirza Ulugobek, have emphasized in their works that they attach great importance to the use of various methods and means of teaching in schools and madrasas to bring people to intellectual maturity [1].

## RESULTS AND DISCUSSION

In the current educational system, the new concept-pedagogical technology of acquiring knowledge - the use of methods of non-traditional educational technologies. Non-traditional educational technology: It is divided into collaborative learning, modeling, research (project) technologies, and it is carried out on the basis of an integrated system. The main concept of pedagogical technology, without a word, is to approach the educational process as a system. The non-traditional teaching method is the basis of cooperation between the teacher and the learner for the realization of the educational goal. Methods: ensure the achievement of the intended results that the learner should know, understand and value. In this case, all things and events involved in education are functionally interrelated and form a whole, that is, a set of pedagogical processes.

We are analyzing and studying the ways to increase the effectiveness of education in the teaching of biology. Our biological thinkers explained the organization of effective ways of the educational process as follows [2]:

Ibn Sina attached great importance to the issue of teaching and educating a child at school and devoted a special section of his work "Tadbir ul Manozil" to this issue. In the section of the book "Education and upbringing of a child at school" it is discussed about attracting a child to school.

The following ways of organizing students' cognitive activities are indicated in order to increase the effectiveness of education in the teaching of biology [3]:

- initial familiarization with educational material; study of educational materials;
- comparing acquired knowledge with previously acquired knowledge;
- systematization and strengthening of knowledge;
- apply acquired knowledge in new situations.

The following should be taken into account when improving the effectiveness of the teaching process of biology:

- Choosing tools, methods and forms in accordance with its content to achieve the goal of the teaching process. Their compatibility with the motivation, needs and interests of students.

- Designing the teaching process, choosing the teaching content and means of achieving the goal, delivering the teaching material using various methods and achieving conscious mastering.

Carrying out educational operations of students, effectively organizing the educational work of teachers and students.

- Organization of feedback during the teaching process, control and making appropriate changes to the process of mastering the learning material and self-monitoring.

In addition, the activity of the teacher, who is the organizer and manager of the teaching process, plays an important role in increasing efficiency.

The activity of the teacher is to organize and manage their educational activities according to the educational content in order to harmoniously develop the mental, moral, spiritual and physical abilities of the young generation. It consists of [4]:

- Selection of educational material, systematization, design in a logical sequence;
- Selection of teaching tools, methods and forms that allow students to accept, understand and consciously master the educational material;
- Organization of the pedagogical process as a whole in accordance with the educational goals of each student, achieving their mastery of the knowledge system and knowledge acquisition methods;
- Planning his and the students' activities during training;
- Determining the methods of organizing and encouraging students' conscious and active activities aimed at acquiring knowledge and skills;
- Determining ways to increase the quality of performance of educational tasks by students;
- Making appropriate changes in the organization and management of this process in accordance with the results of the training process.

**CONCLUSION**

In conclusion, it should be said that the role of the teacher and the student, that is, the learner, is the same in increasing the effectiveness of education in the teaching of biological science. Traditional education, which maintains its dominance in the current educational process, implies comprehensive teaching of students and organization of cognitive activity of students as passive listeners. In the organization of teaching activities, a middle-level student is assumed, independence of students is neglected, educational activities are managed by the teacher.

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