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## EFFECTIVENESS OF MODERN TEACHING METHODS IN EDUCATIONAL PROCESS

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### ABSTRACT

In this article are considered importance of modern education, the development of modern science and technology, as well as the development of teaching technologies and the effectiveness of teaching electrical engineering in higher education institutions with modern methods are considered.

**Keywords:** electrical engineering, knowledge, integration, method, element, education, pedagogy, modern, process.

### INTRODUCTION

At the lower stages of human civilization, the activities aimed at educating and educating a person were organized on the basis of simple, very simple requirements, but today very strict and complex requirements are imposed on the organization of the educational process. For example, the social need to train a qualified specialist who can work with complex equipment, has the ability to fully understand the essence of the production process, and positively solves the problems that arise even in emergency situations, requires the organization of the educational process based on a technological approach.

Currently, it is extremely necessary to search for effective forms and methods of preparing the young generation, who are our future, for life based on the latest achievements of science and culture. Putting the problem of “How to teach efficiently and effectively?” in the science of pedagogy led to the technologicalization of the educational process, etc., turning teaching into a technological process that leads to a guaranteed result. Applying of pedagogical technologies serves to increase the effectiveness of education, to ensure that the learner is at the center of education and independent learning, and that teaching is active, developmental, diagnostic and effective.

Large-scale educational reforms require the introduction of advanced educational technologies into the educational process. This, in turn, requires pedagogical staff to



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apply and develop a technological approach to the field of education, mastering the method of pedagogical technology in pedagogical practice. The technological approach to the existing traditional educational process can be implemented not only in a complex way, but also step by step, depending on the creation of methodological manuals and educational material base by pedagogues.

Using modern teaching methods inextricably develops students' learning and self-education. It creates an opportunity to have excellent knowledge on the subject, and the lessons teach the student to think independently, express his opinion freely, listen to the opinion of others and draw conclusions.

The introduction of new pedagogical technologies into the process of education is based on the following:

- ensuring the priority of the individual student participating in the educational process;
- implementation of the achievement of the educational goal (guaranteed);
- achieving its targeted management based on the fact that the educational process is a controlled process;
- bringing the technology of means, methods and forms of educational content into a single system.

In the sessions organized with the help of advanced pedagogical technologies, students are given the opportunity to think independently, to use the available resources correctly in learning the subject, and to think freely. It will also create an opportunity to increase students' interest in the lesson. The teacher acts as an observer and manager in the lesson. He works tirelessly on himself by researching, learning, and creating in the process of preparing for the lesson. In such classes, there is a great possibility of effective use of time and effective achievement of the goal. Therefore, the application of such technologies to the educational process requires a lot of preparation from the teacher.

## The method of Mind map

The method of perception map is a method of graphical presentation of the topic or educational material, which allows for systematic, orderly and visual assimilation of information. Perceptual map is an effective factor in demonstrating the causal relationship between the parts of technical devices with a complex structure that implements technological processes, keeping them perfectly in memory, and systematizing them. The more network it has, the more detailed analysis of the



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learning material it will allow to determine in advance how much attention will be paid to the first-rate learning material. In other words, the perceptual mapping method has the ability to provide a guaranteed final result.

- Purpose and form of application: in lecture sessions - presentation of new knowledge, collective;
- checking and strengthening knowledge in small groups during seminar sessions;
- in independent education - creative work, development of logical thinking skills, individual.

"T-Table"

The "T-table" graphic organizer reveals the content of several basic symbols and basic concepts based on their mutual comparison and comparison in order to illuminate a specific aspect of the topic or issue being studied. In many cases, this technology is used in order to compare the advantages or disadvantages of several situations that form the basis of the topic, the level of efficiency and inefficiency, and their importance for today and the future. Order of using the method:

- 1) the subject, issue or task to be studied is brought to the students' attention;
- 2) students are introduced to the conditions of using the "T-table" method;
- 3) students are assigned to groups;
- 4) in the allotted time, groups (pairs) make a comparative comparison according to the essence of the task given in the form of a table, that is, they describe the contradictory situations of the issue to the left and right sides of the table;
- 5) tables filled in by groups are compared;
- 6) a single "T-table" is formed by reaching a final conclusion regarding the solution of the problem.

In the classes organized with the help of these technologies, students have a great opportunity to think independently, to use the available resources correctly in learning the subject, to think freely, and to achieve the goal effectively.

## CONCLUSION

The new pedagogical technology provides an opportunity to obtain the expected (guaranteed) result as a result of the educational process. This element is the central idea of the new pedagogical technology. The new pedagogical technology demands that the result of the educational process be guaranteed, and the purposeful planning of the implementation of the process for the intended purpose and its effectiveness



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is set before the teacher as a goal. During the process, this process is analyzed, corrections are made, refills are made, and the expected result is achieved.

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