

## **THEORETICAL FOUNDATIONS OF THE PRINCIPLES OF INCREASING THE EFFECTIVENESS OF TEACHING INFORMATION AND COMMUNICATION TECHNOLOGIES BASED ON DIDACTIC LAWS**

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### **ABSTRACT**

The article examines the subject, functions and main categories of didactics. The essence of the ICT process. Description of educational processes, their relationship in the educational process. The effectiveness of pedagogical and information technologies depends on compliance with the laws of education, creates a wide range of opportunities for the creation and implementation of a system of objective assessment of the quality of the educational process and training.

**KEYWORDS:** Didactics, teaching theory, general didactics, education theory, educational process, teaching principles, didactic principles, skill. Advanced teaching technologies and skills.

### **INTRODUCTION**

In the 21st century, the creative and practical power of science is growing. Thus, promising areas of science have been identified as an integral part of the national model of education in Uzbekistan. The social role of pedagogy in providing scientific and methodological support to the national curriculum, the introduction of the national idea into the hearts and minds of the masses has increased.

All the reforms carried out in our country are aimed at the noble realization of the interests of the people, the creation of a prosperous life for our people. The successful solution of these tasks in the short term depends not only on our current state, but also on the stable and conscious activity of each member of the society in which we live.

The rapid development of information and communication technologies, a sharp increase in the volume of information, the development of various information systems, the growth of Internet services, the development of various educational portals require extensive knowledge and skills in the field of ICT from the educational engineer.

Striving to turn Uzbekistan into a developed country, we can achieve this only through accelerated reforms, science and innovation. This was stated by President Shavkat Mirziyoyev in his address to the new parliament of Uzbekistan. "To do this, first of all, we need to train a new generation of knowledgeable and qualified personnel who will turn into entrepreneurial reformers, thinking strategically," he said. [1]

The concept of the development of the public education system of the Republic of Uzbekistan until 2030 defines such important tasks as "a qualitative update of the content of the continuous education system, as well as the gradual introduction of the principles of vocational training, teaching methods, individualization of the educational process"

The practice of improving the quality of training of highly qualified teachers on the basis of international standards, the widespread introduction of advanced pedagogical technologies and curricula in the educational process is widely used in our country.

Students were asked to read statements about what a modern teacher should look like. The results were analyzed on the basis of the following criteria: 15-20 points - a high degree of formation of professional

qualities; 10-15 points - the average level of formation of professional qualities; Less than 10 points is a low level of formation of professional qualities.

As a result of innovative experimental work, the following conclusions were drawn: high level of formation of professional qualities - 35%; the average level of formation of professional qualities - 45%; low level of formation of professional qualities - 20%.

In our opinion, when forming a complete solution to the problems identified as a result of experimental testing, and improving the quality and efficiency of competent training of future teachers-engineers on the basis of didactic laws, it is necessary to take into account the following:

- It was noted that due to the growing demands of modern society for a qualified teacher, most of the teaching engineers are not ready to work in a self-developing environment, the possibilities of ICT subjects in terms of the professional competence of future teachers are insufficient.
- It has been established that the level of student competence is not a generalized goal of pedagogical activity, but requires special attention to each person who is both an object and a subject of pedagogical influence, that is, the solution of pedagogical problems should be based primarily on the individual qualities of the subject.
- The results of our research have shown that the connection between general professional and special methodological knowledge serves as a starting point, which is genetically important in the development of professional development.
- It has been established that the choice and structuring of the content of psychological and pedagogical, specialization, special education, which is important for the formation of the quality and effectiveness of future learning, gives a complete picture of pedagogical activity, its tasks and educational issues.
- The purpose of improving the quality and efficiency of competent training of teachers of engineering specialties is to ensure didactic and socio-psychological adaptation to teaching activities in the process of professional and personal development, the development of components such as self-awareness of students, assessment and management of them, as well as preparation for work in various educational institutions.
- Revealed motivational, volitional qualities, intellectual potential, emotional qualities, practical skills, qualities in the formation of improving the quality and efficiency of competent training of future engineering teachers.

Modernization of the educational process, development of scientific foundations of pedagogical and information technologies is a requirement of the time. The 21st century has become the century of pedagogical technologies in the education system. The effectiveness of educational and information technologies depends on compliance with educational laws. After all, the priority of education in this particular model of Uzbekistan's development requires studying the pedagogical foundations of the spiritual foundations of a market economy.

There are different approaches to the development of the theoretical foundations of pedagogical technology. It is known that subjective approaches to improving the education system as a result of violation of pedagogical laws have led to its decline. Its effectiveness increases only if it is based on objective laws when creating the theoretical and practical foundations of pedagogical technology.

In recent years, objective laws of the educational process have been scientifically substantiated, which made it possible to create a theoretical basis for pedagogical technology. Pedagogical technology is similar to production technology: a system of goals, content, methods of implementation, forms and guaranteed results. As the laws of physics, mathematics and nature are embodied in the production process, so are the laws of pedagogy in the process of education.

Just as the laws of physics and chemistry in social production are violated, so the pedagogical and psychological laws of the educational process are not observed.

Some views on pedagogical laws emerged in the last quarter of the last century. It is known that the theoretical foundations of the educational process are characterized by such categories as "principles", "principles", "rules", "methods", "methods", "means". Of course, these categories follow from pedagogical laws. But in many studies and practical actions, general pedagogical laws are not clearly expressed.

The laws of the educational process are a proven criterion of pedagogical activity, tested in practice in the historical development of human society.

Didactics sets itself the task of studying the general laws of teaching that meet the goals of comprehensive student education.

**The law of compliance of the educational process with existing conditions and requirements of the time**

Socio-historical significance of education, subject and task of preparing young people for life	Period of demand and availability of existing conditions	Didactic principles	Current issues
In every century, in every nation, in the development of a nation, the country was like this	The priority of education in accordance with the requirements of the market economy, the growth of the creative potential of science.	Content of continuing education, educational standards have been developed	Improving the theoretical and practical foundations of student-centered education
Education is inseparable from upbringing, and upbringing is inseparable from education, which, according to Eastern ideas, is a test of Eastern life. I.A.Karimov	An educational and material base has been created under the school development program for 2005-2009.	Methods and means of teaching based on pedagogical technologies have been modernized.	Pedagogy and pedagogical and psychological technomethodology and methodology of modernization of the educational process.
A national training program has been implemented in Uzbekistan, which is becoming a factor in the country's economic and cultural development.	A system of information resources has been developed, conditions have been created for integration into world science, and innovative pedagogical technologies have been introduced.	A distance learning method has been created, and the forms of education are being modernized.	Pedagogical reflection. Corridor self-knowledge method

The unity of theory with practice is a philosophical category. This is one of the laws of the educational process. In education the unity of theory with practice is a criterion for preparing a harmoniously developed person for life.

**The unity of theory with practice in the educational process**

Cognitive theory of philosophy	Goal of practical knowledge	“Strength in knowledge and thinking” I.A.Karimov
Cognition is a reflection of an event in the mind of a person	A system of ideas about an area of knowledge, knowledge that has a certain form	Theory and are interconnected, cannot exist without each other
The process of cognition is a transition from live observation (emotional cognition) to abstract thinking (rational cognition), and from it to practice.	Knowledge of human education, laws of nature and society	Practice is the activity of a conscious creative connection of a person with the universe
Geoseology is a philosophy of knowledge.	Theory	Practice is a criterion of knowledge

Theoretical knowledge and practical skills are proven to complement each other in science. The combination of theory with practice in the application of pedagogical and information technologies is a factor of effectiveness. Also, the process of cognition is based on psychological laws.

The law of interdependence of education and development the founder of the doctrine of the primacy of spirituality, education in the specific model of development of Uzbekistan I. A. As Karimov noted in his

book "High spirituality is an invincible force", "Education is inseparable from upbringing, and upbringing is inseparable from education - this is the Eastern outlook, the Eastern philosophy of life."

This law is a methodological criterion for the content, methods and means of forming a comprehensively developed perfect human generation.

#### Interdependence of education and development

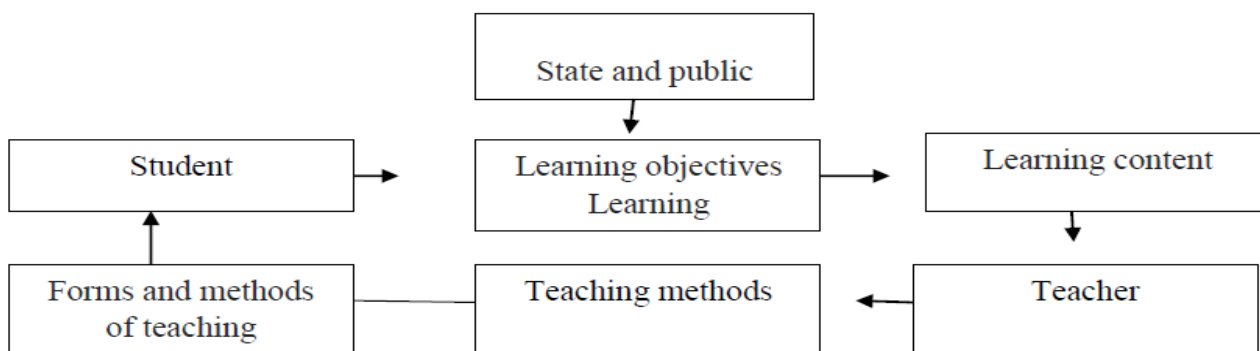
Education is inseparable from upbringing, and upbringing is inseparable from education, which, according to Eastern ideas, is a test of Eastern life. I.A.Karimov	Personality developmental feature of education	Educational feature of training
A combination of learning and development in "Avesto"	The possibility of intellectual development of the personality in the educational process	The possibilities of mental education and the formation of an educational motive for learning
Harmony of education and development in mysticism	Development of emotional, mental, human abilities in the learning process	Moral education of education and the formation of a noble goal of education
"Education will be chaired by vocational education" Abu Nasr Farubi	Spiritual and moral development of the individual in the educational process	The relationship of education in the formation of aesthetic, labor, professional, environmental, economic worldview and skills, beliefs.
Educational block for fiction. Literature - a textbook of life	Physical development of personality in the educational process	

The relevance of education to the capabilities and abilities of students is expressed in the basic principles of didactics of the law. Finding talented young people, the development of their abilities involves the emergence of young people on the world stage, the creation of the theoretical basis for the education of future Al Khorezmi, Farabi, Beruni, Ibn Sino, Navoi. This law has been proved in the world experience and history of pedagogy.

The unity of teaching and learning, the unity of teaching and learning, the dependence on the activity of teachers and students, the legitimacy of pedagogy is reflected in the technology of the educational process. The methodology of technological, systematic approach to higher education pedagogy has been proven in practice. And, finally, in the education system, the methodology of teacher-student cooperation, which differs from the bureaucratic system of "rhetoric", "rhetoric", "rhetoric", is applied. Interactive methods of pedagogical technology are an expression of this law.

- The pedagogical legitimacy of the interdependence of educational goals, content, methods and forms, first of all, takes into account the optimal conditions in the choice of educational goals, content, methods and tools. The UNESCO definition of pedagogical technology states that the main criterion is the optimization of the educational process, the interdependence of each component.

Q student's skills relevant content appointment, meaning the appropriate methods and instruments chosen teaching. This can be seen in VP Bespalko's model of a systematic approach to the educational process.



V.P. Bespalko's model of a systematic approach to the educational process.

- The law of interdisciplinary connection in education. BCE is good pedagogy and psychology is closely linked to educationist process methodology. The integrity of the objective world requires the study of sciences in an organic connection. While there is a more differential case in scientific research, there is a case of integrity integration in practice. Interdisciplinary interdependence in education complements each other, the formation of a harmoniously developed personality, increases the effectiveness of preparing young people for life. Furthermore, real knowledge is the knowledge of the historical development of the origin of everything, object, event, concept (word), its connection with another subject, event, and its socio-economic essence today.

- To direct the educational process to the student's self-knowledge and self-education. Abu Nasr recommends that al-Farabi classify the educational sciences as "starting with the knowledge of one's self first." In addition, one of the main criteria of the renaissance in the development of human society is the knowledge of human identity, expressed as a period of "awakening". Human possibilities are endless, and the extent of his power of self-knowledge, self-disciplined measurement of Eastern philosophy with a key mysticism and science-based.

Thanks to the independence of national independence and orange logos, outlined the principle of self-consciousness, in the short term national self-created program. The national model of training shows that a person is a consumer and implementer of education. In recent years, pedagogical research began to study the problem of person-centered education. Person-centered education is based on psychological laws in theory and practice. In fact, in the context of information globalization, how quickly young people realize themselves, find their place in life depends on independent thinking, learning and self-education.

Didactic laws In our opinion, today there are the following general laws of the science-based educational process:

- ✓  history, nationality and universality of education;
- ✓  compliance of the educational process with the current conditions and requirements of the period;
- ✓  unity of theory with practice;
- ✓  interdependence of education and development;
- ✓  adequacy of education to the capabilities and abilities of students;
- ✓  Interrelation of educational purpose, content, methods and forms;
- ✓  law of interdisciplinary connection in education;
- ✓  educational process is to express the student's identity and encourage self-education [ 4 ].

Information technology didaktika teaching pedagogy "Why," he said, "What are you learning how to read," he said, "should", "How should the amount of training," Who should read "training", "Where", "training" seeks answers to questions.

The educational process is effective only if it is based on pedagogical and psychological laws.

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