



## **IMPROVING THE CONTENT OF BIOLOGY EDUCATION BASED ON PERSON-ORIENTED (DEVELOPMENTAL) TECHNOLOGIES**

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### **Abstract**

In this article, the improvement of the content of biology education through personalized educational technologies, the introduction of modern pedagogical and innovative technologies in biology lessons, and the types of personalized education in modern education, the personal orientation of teaching biology principles of organization based on technologies are explained.

**Key words:** Biology education, person-oriented technologies, interactive methods, innovative technologies, modern education, creative tasks, educational motivation of students, creativity, creativity abilities of students.

The future of every society is determined by the level of development of the education system, which is an integral part of it and a vital necessity. Today, reforming and improving the continuous education system of our country, which is on the path of independent development, raising it to a new level of quality, introducing advanced pedagogical and information technologies to it, and increasing the effectiveness of education have been raised to the level of state policy. With the adoption of the Law "On Education" in the new version, the basis of modern personnel training and educational content was improved through the continuous education system. In this place, the importance of person-oriented technologies is great.



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On the basis of person-oriented (developing) technologies, the following points are important:

1. A new look at the person as the goal of education: the child is a person with full rights in the school, a subject in the pedagogical process; personality development - the goal of the educational system; It reflects ideas such as the basis of the goal of education to educate every free, independent and well-rounded individual.
2. Humanization and democratization of pedagogical relations, love for children, interest in their fate; convincing the child of his strength and talent; achieving cooperation with him in the process of pedagogical relations, legal equality of teacher and student; the child's right to free choice; the right to be wrong; represents situations such as having one's own personal point of view.
3. A new interpretation of the individual approach. Its content is to direct the child to the subject, not the student. Individual approach includes the following: avoiding targeting students who master the material on average, seeing the positive qualities of the person, psychological and pedagogical diagnosis of the person
4. Forming a positive "I-concept" of the person. The task of the teacher is to see a perfect person in the person of each student, understand him, accept him and trust him.
5. "Why?" and "What education?" a new approach to solving the problem. Its essence is to understand the content of education as a means of personal development.

In today's modern education, the following types of person-oriented education are widely used:



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- ✓ creative assignments;
- ✓ tasks requiring a creative approach;
- ✓ problems and problematic situations;
- ✓ didactic, role-playing and business games;
- ✓ discussion, debate;
- ✓ contests in the form of competitions, etc.

Also, there are the following main types of person-oriented education: innovative education, cooperative education, interactive education, distance education, problem-based education, project education, computer-based education, developmental education, individual education, independent education, software education, game technologies. Educational processes are successfully implemented through the correct and effective use of all types of this person-oriented education in biology classes. After all, the use of interactive educational technologies and methods from individual-oriented education types is considered to be one of the most optimal ways to increase the effectiveness of education in the current modern conditions.

After all, pedagogic scientists R.Ishmuhamedov, A.Abdugadirov, A.Pardayev stated that the qualification of a teacher of an educational institution should have two sides, illuminated by special and pedagogical disciplines, and he always asks: "Why teaching need?", "How to teach?" find answers to the questions, should be based on knowledge that takes into account the characteristics of education.

Organization of biological science teaching based on person-oriented technologies requires reliance on the following basic principles:



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- humanitarianism - i.e. showing respect and love to a person in every way, helping him, trusting his creative abilities, completely refraining from coercion;  
- cooperation - i.e. democracy, equality, independent activity in the relationship between teachers and students, i.e. the freedom for a person to choose his life activities within a wide or narrow scope, to produce results not from external influences, but from internal feelings.

The communicative basis of person-oriented technologies is a human-personal approach to the student in the pedagogical process.

Therefore, person-centered education is to take into account the personality of the learner, his uniqueness, inner feeling and value, in which the individual ability, experience of each student is developed, and then he coordinated with the educational content. In the implementation of this approach, educational and cognitive processes are mutually coordinated, taking into account the cognitive mechanisms, mental and behavioral characteristics of students, and the teacher-student relationship is based on the principles of cooperation and freedom of choice.

One of the most important features of person-oriented education is the orientation of educational processes to the satisfaction of students' existential (necessary for existence) needs, and in this process, attention is paid to students' personal-meaningful focused on the development of features.

One of the main tasks of the teacher in personalized education is to increase the intellectual potential of students. In this process, students are required to perform the following tasks in order to increase their intellectual potential:

- to study the personality and individual qualities of each student, to show appreciation for their emotions;



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- to have a positive respect for the opinions, comments and suggestions expressed by the students;
- relying on the subject's personal experience;
- development of students' learning motivation;
- creating conditions for students' independent activities in the course of the lesson;
- paying attention to the suggestions and wishes of students regarding the organization of educational processes;
- encouraging students' creativity, creative abilities, etc.

In short, the main goal of introducing individual-oriented educational technologies in teaching is to recognize and take into account the individuality of students, to create the necessary conditions for their personal development. In this regard, it is appropriate to prepare didactic materials aimed at increasing the level of learning of students in academic subjects, taking into account their age, psychological and physiological characteristics, to effectively use modern pedagogical technologies and interactive educational technologies.

In today's era of globalization, one of the main tasks of the education system is to educate students who have the ability to think critically and logically, who can find solutions to non-standard situations, and who are able to demonstrate their knowledge and competence. in other words, it means opening and developing and improving all the possibilities of a person.



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