

**FORMATION OF PROFESSIONAL COMPETENCE BASED ON ARTIFICIAL
INTELLIGENCE IN PRIMARY SCHOOLS**

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Abstract: This article is devoted to the formation of professional competence based on artificial intelligence in primary grades, the basics of artificial intelligence, its content, competencies in the process of various education in the field of artificial intelligence, and along with this, educational standards, the formation of a culture of using artificial intelligence in the education system and its role in the development of education are discussed.

Key words: Artificial intelligence (ChatGpt, Narrow AI, GAN AI, General AI), education based on artificial intelligence, professional competencies, primary school teacher.

The 21st century has entered a new stage of world development, the first factor of the world revolution was fire, the next was computer technology. Today, no sphere can be imagined without computer technology. Especially without artificial intelligence, artificial intelligence is the most stable process of our life and raises creativity to a high level, but there is a possibility that a system based on artificial intelligence will weaken the creativity of humanity.

There is novelty on all fronts, which is certainly the reason for the lightness of humanity tomorrow and the fact that life will become more beautiful. However, the kindness of each of our actions is also inevitable. In order to be ready for any process, we must necessarily create new ideas. Modern technologies will certainly help us with this. Why modern technologies are the reason that we have to partially abandon the old way of life and views and already represent a new stage of development.

The role of primary education in the development of the educational system and the preparation of competitive qualified personnel, in taking the first step towards the development of the state, in creating new ideas and thoughts, in organizing the sustainable development program is incomparable. It has been proven that the education received in primary school determines what kind of person the child will be in the future. For example, improving the tar system in primary school can determine the future development of our country. When it comes to the fact that the more attention is paid to primary school, the more the result will be revealed. The formation of thinking from the level of curiosity of a primary school student, in turn, creates the basis for the creation of innovative ideas. The birth of innovative ideas determines the stages of development of this country. Innovative ideas are the basis for the development of the country. In order to classify this basis and thoughts, it is necessary to introduce international competencies in primary school.[1]

Competence (Latin Compete - worthy, deserving) - 1) the scope of powers, rights and duties of a specific state body (local government body) or official, determined by law, charter or other document; 2) knowledge, experience in a particular field. [2]

Successful use of modern information and pedagogical technologies, software methods based on international experience in the educational process is a necessary action. At the same time, it is important to plan and implement such teaching methods as reflexive, motivational, operational, cognitive and self-assessment.[3]

The basis of the above instruction is that we cannot imagine without technology in the education of the younger generation and will definitely rely on computer technologies in the formation of modern competencies. Why we need to use artificial intelligence with a competent approach to the use of modern pedagogical technologies is that we must not forget that we are educating the younger generation, especially considering that this is the "Beta" generation, born in the current period, that is, since 2025.

“The Beta generation is living in an era where artificial intelligence and automation are fully integrated into every aspect of daily life, from education and the workplace to healthcare and entertainment,” **Mackinder** said.

The expert also said that the children of this new generation will inherit a world facing challenges such as global climate change, serious social problems, population migration, and rapid urbanization.

What is Artificial Intelligence?

By the 21st century, humans are using self-thinking equipment and methods, and this is called artificial intelligence. AI, or artificial intelligence, refers to the simulation of human intelligence in machines programmed to think and act like humans. [3.1]

AI includes a variety of techniques and approaches that enable computers to perform tasks that typically require human intelligence, such as understanding natural language, recognizing patterns, learning from experience, and making decisions.

ChatGPT is an AI-powered chat agent developed by Open AI based on its architecture. ChatGPT is designed to communicate in natural language and provide human-like responses based on input. It uses large-scale machine learning models trained on large volumes of text data to generate context-aware and consistent text.

Narrow AI refers to AI systems that are designed and trained to solve a specific task or narrow set of tasks. These systems excel at their specific tasks, but lack general intelligence or the ability to transfer their knowledge to new domains. Examples include speech recognition systems like Siri, image recognition software, and recommendation algorithms.

GANs are a popular approach for creating realistic images using AI. GANs consist of two neural networks, a generator and a discriminator, that compete against each other in a game-like manner.

The generator creates synthetic images from random noise, while the discriminator's role is to distinguish between real and generated images. As the generator trains, it learns to create increasingly realistic images that can be used for a variety of applications, such as image synthesis, style transfer, and image editing.

AI refers to AI systems that have human-like intelligence and cognitive abilities. These systems could understand and learn any intellectual task that a human could perform. General AI remains a rather theoretical concept and has yet to be implemented.

Based on the information provided, we can observe that in the process of teaching primary school children, based on their age characteristics, play activity is now moving into scientific activity, and at the same time, the game process is still in the learning process. The first place that we can observe in the data. In the process of teaching the younger generation, play should be mixed, i.e. with modern pedagogical technologies, while the teacher should be actively interested in and engaged in modern pedagogical technologies, as well as artificial intelligence. For example, the intelligence of the beta generation is allowed to have more accurate information about what it is busy with or interested in, and teach based on this information. If a student received a lesson 15 minutes ago via the Internet, taught by a teacher for 45 minutes, then the teacher's teaching is no longer interesting to the student and the student tries to cope with his interest. This, in turn, can have a sharp impact on the education system and cause low efficiency.

The work that we do for hours, students do in a few seconds or minutes through artificial intelligence, which is certainly good, but creativity and professional competence can disappear by themselves. We know that artificial intelligence only creates a process that selects the most suitable options for you, that is, it does not have a process of creation or innovation, it may not give new ideas and ideas, but people can improve them as an exception. It embodies the features of innovation and the ability to create news. From this conclusion, it is clear that if artificial intelligence has speed and several options, the ability to create news from humanity or intelligence and combine them, in turn, then it is clear that achieving high intelligence will lead to the full effect of the result. At the same time, of course, our organization based on artificial intelligence, when introducing professional competencies, has a high probability of serving as a new stage in solving the problems of globalization, which will bring the desired effect.

Just as every program starts with small steps, it is clear as day that in order to take a leading position on an international scale and demonstrate our strength and knowledge in the world, we must start from the primary grades, setting as an example the fundamental new goals of the school lead to a radical change in the content of classroom teaching. [4]

In conclusion, it is necessary to consider the place of artificial intelligence in each lesson of the introduction of professional competence in primary grades. Any sphere is managed and developed by artificial intelligence; we see the effect of artificial intelligence. However, before mastering each area, the younger generation first chooses a profession based on their talent and interest in primary school, and pays great attention to the competence of this profession. As mentioned above, the so-called beta generation can serve as an example. It is assumed that measures must be taken to form a culture and understanding of the aspects of globalized environmental problems and the rational use of social networks.

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