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THE EDUCATIONAL ADVANTAGES OF VIRTUAL REALITY TECHNOLOGIES

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Abstract: *the article is devoted to points of views on virtual reality technology that one of the contemporary information technologies, the role of education process and beneficial approaches of this technology implemented for teaching environment as the means of education. These technologies is useful for rise up new stage as a quality preparing proficiencies who owned with modern well-education and expanding experience. Moreover, it is also useful for modernization of high education system, developing distance learning technologies, and it could be foundation based on pilot model of new technologies not only for today but also for preparation of new technologies for future as well.*

Keywords: *education, educational process, information, visualization, virtual reality technology.*

ОБРАЗОВАТЕЛЬНЫЕ ПРЕИМУЩЕСТВА ТЕХНОЛОГИЙ ВИРТУАЛЬНОЙ РЕАЛЬНОСТИ

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Аннотация: *в данной статье рассматриваются взгляды о технологиях виртуальной реальности, как на одну из современных информационных технологий, которая играет важную роль в процессе обучения, и об эффективности использования данного метода в качестве учебных средств. Это основа для подготовки новых технологий современности и будущего, которая принесёт качественно новые уровни современных знаний и самостоятельного мышления при процессе подготовки высококвалифицированных кадров, модернизацию высшего образования, развитие технологий дистанционного обучения, основанных на передовых образовательных технологиях.*

Ключевые слова: *образование, учебный процесс, информация, визуализация, технология виртуальной реальности.*

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By 2030, adopted by international organizations and developed countries around the world: the new concept of education said that should strengthen the education system, disseminate knowledge, use different information, and use new information and communication technologies to create quality and effective education [1].

Indeed, modern trends in the development of society, development of computer technologies, globalization and informatization have affected all sectors, including education. Identifying and

implementing new opportunities for using computers in the learning process is one of the key factors for effective learning processes. One of the most pressing problems of all areas of human activity, including the training of students in the learning process, is the ability to comprehend the reality of virtual reality technologies.

Virtual reality (VR) is a collection of software and hardware tools that allow the perception of the artificial world through the senses (visual, auditory and sensory), and which can be conveyed to the user's mind. That is the traditional way of replacing the environment with information generated by various techniques.

To get full understanding of virtual reality, you need special tools (headlamps, special gloves), three-dimensional (or stereoscopic) monitors, projectors and special glasses or standard computer monitors and projection tools.

Virtual reality forms based on film and various illustrations have been used in the educational process. The fact that computer technology can integrate motion and sound information into a single system, and the ability of students to actively interact with the process, is a turning point in creating new educational resources.

In addition, the level of knowledge acquisition in the learning process depends on the student's participation. This fact was used in the research by American scientists R. Carnikau and F. Mellou, using the "Pyramid Training" model. In this model, it has been found that long-term memory is retained in a person's repetitive or sensitive information (Figure 1) [2].

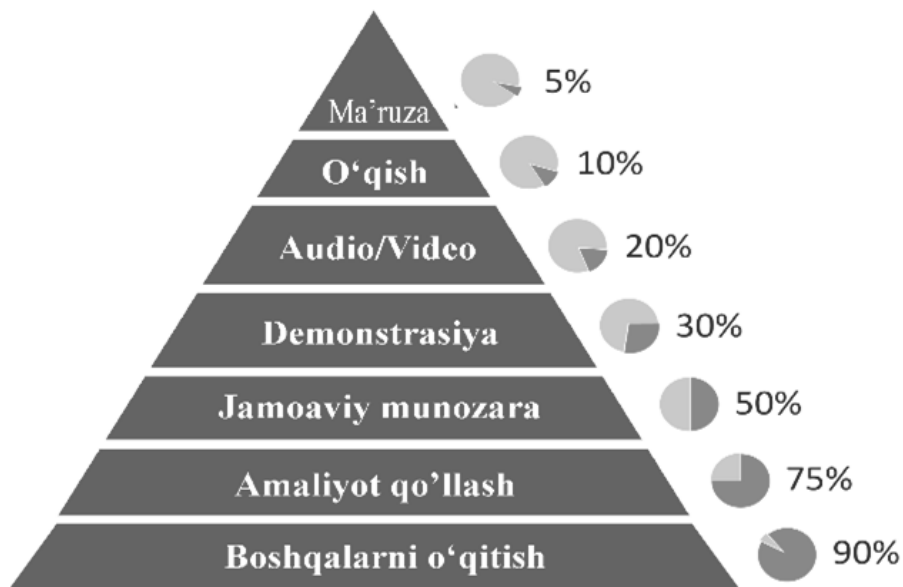


Fig. 1. The "Pyramid Training" model

Any visual information can help the reader get their attention. Understanding complex processes is simplified by a combination of simple elements, charts, or diagrams. Team discussion helps to remember the problem by analyzing the issue from different perspectives and replicating information with active participation. **The advantages of virtual reality technologies in the learning process are:**

1. **Cost savings.** Many experiments are usually impossible due to lack of equipment, labs, raw materials and other equipment. Using virtual reality technologies, students can experiment with different types of home experiences and get the desired results, such as real experience. This will significantly reduce the cost of education.

2. **Prevention of hazards.** Real experiences or tasks often fail, because they are associated with different risks. Using virtual reality technology, students can safely perform experiments that

address various risks. For example: a flight simulator can help prevent serious accidents caused by aircraft crashes when students make mistakes.

3. **Space and time limit.** VR technology can travel around the universe, monitor atomic particles, and perform virtual tours for years or even centuries.

Virtual reality is directly related to many areas of human activity such as: medicine, biotechnology, designing, marketing, art, ergonomics, entertainment [3].

The virtual process occurs only in a particular virtual space, which is influenced by the interaction of important virtual objects.

Virtual learning in the broad sense is the process and its implications for the interaction of its main subjects with the direct teaching and learning of the teacher.

In a word, virtual reality technology is a teaching technique used in education, a high-tech didactic tutorial, and an educational technology that provides insight.

Thus, the use of virtual reality in the learning process is one of the high-quality and high-quality teaching methods, and the up-to-date information that influences students' creativity, the formation of a specific cognitive motivation, the learning curiosity, and the creation of a harmonious mental environment technologies.

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INNOVATIVE TECHNOLOGIES IN THE COURSE OF LEARNING A FOREIGN LANGUAGE AT THE MEDICAL COLLEGE

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Abstract: *the article analyzes the most effective innovative technologies in the course of teaching a foreign language in a medical college, such as distance learning technologies, mobile training innovative technologies, training (M-Learning) and also their advantages and disadvantages because the modern trend of the world development contributes to the modernization of society in all fields and education is no exception. In this regard, there is the tendency to the strengthening of the role of foreign language in the process of training qualified personnel with professional competence.*

Keywords: *analysis, innovative technologies, pedagogy, teaching methods.*

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