

Today's VR is being pioneered by such great tech makers like Samsung and HTC and others. VR has many applications in a variety of fields. It is used in entertainment applications such as gaming and 3D cinema, in medicine and robotics, in telepresence and telerobotic systems, in education and digital marketing. It's really a great field for future research.

### **References:**

1. Virtual reality [Electronic resource]. – Access mode: [http://en.wikipedia.org/wiki/Virtual\\_reality](http://en.wikipedia.org/wiki/Virtual_reality)
2. Nintendo Power Glove for VR [Electronic resource]. – Access mode: <https://medium.com/teague-labs/nintendo-power-glove-for-vr-b8bee1449e4>
3. Virtual Boy [Electronic resource]. – Access mode: [https://en.wikipedia.org/wiki/Virtual\\_Boy](https://en.wikipedia.org/wiki/Virtual_Boy)
4. Vive Shipment Updates - Vive Blog [Electronic resource]. - Access mode: <https://blog.vive.com/us/2016/04/07/vive-shipment-updates/>

**Tanya Kyrylyuk, Viktoria Homyakova,**  
Research supervisor: Patryak Oleksandra  
Candidate of Economic science, Lecturer  
Language tutor: Olga Hyryla, Lecturer  
Ternopil National Economic University

## **INFORMATION TECHNOLOGY USAGE IN HIGHER EDUCATION**

Development of information technologies is a priority task of modern society in recent years. In modern conditions the learning process is in constant interaction with new information complexes and systems. This allows us to apply new methods and approaches in relation to an education system. Implementation of new information technologies in the educational environment, as well as any other innovative process, makes changes in pedagogical sphere.

The new technologies integrated into an education system help to develop students' creative thinking. Due to the new opportunities the student becomes more motivated to resolving the tasks set for him. The introduction of new information technologies and information systems in the field of education has become a factor of dynamic development of the world science [1].

It is important to understand a role of informatization of the higher education system in the modern world where information technologies are

being used in educational and methodical complexes and programs of the higher education.

First of all we are talking about teachers. One of the most promising and promptly developing technologies in recent years is the technology of distance learning.

Distance learning allows carrying out interactive communication between the student and the teacher without meeting each other. There is an opportunity to independently acquire a certain amount of knowledge of the chosen program.

Considerable development was gained in recent years by the concept of "gamification" of distance learning. This concept is based on the use of game mechanisms, the principles and tools for the solution of real, non-gaming tasks and challenges, in the most different areas of public life. However, in the application of this technology lies the problem of establishing a framework of student involvement in the learning process. Excessive enthusiasm for formal game aspects of learning can have an adverse effect on development of materials of the studied discipline [3].

Besides the technologies considered earlier, there are also other modern technologies used in learning. It is necessary to refer technology of conference communication to the modern information technologies. In educational process the technology of conference communication has great opportunities; application of this technology allows solving a number of the tasks arising in the course of learning.

In the system of distance learning, programs of computer testing are widely used. The use of this software is caused by necessity to control students' knowledge. Besides, not always computer-based testing reflects the true knowledge of the students. While taking remote testing the student has a possibility to search for the correct answer in different sources of information. Thus, the purpose to pass test in any way without studying of educational material appears.

Information technology and software cannot be introduced into the learning process without the material and technical base. Therefore, it is important to understand that development of information technologies should affect also development of technological devices. At the present stage of development, in higher educational institutions the specialized interactive presentation equipment is widely used. The interactive whiteboard is one of such examples.

The existing regulatory base allows making certain steps towards to development of an education system, improving the quality of education. In the modern world, it becomes difficult to imagine receiving learner's common

cultural and professional competences, without the use of advanced specialized information technology. The most significant problem of development of a modern education system is integration of modern information technologies which can be introduced in the educational process in order to increase the quality of education.

### **References:**

1. A. P. Podlevskikh, E-learning with application of distance learning technologies, In 2012 International Conference «YEES 2012», 164-167 (2012).
2. E. V. Borisova, Transformation of higher education, In 2014 International Scientific-practical Conference «Educational environment today and tomorrow», P. 28-30 (2014).
3. S.A. Titov, Cloud of science, 1, 21-23 (2013)
4. K. Pandey, Handbook of Mobile Teaching and Learning, In Expectations from future technologies in higher education, P. 829-834 (2015).

**Mariia Mohylska, Kateryna Zakharova,**

Research supervisor: Nadiia Khoma

Candidate of Physics and Mathematics, Associate Professor

Language tutor: Inna Shylinska

Candidate of Pedagogical Sciences, Associate Professor

Ternopil National Economic University

## **USING A CLOUD-BASED LEARNING ENVIRONMENT IN INFORMATIZATION OF THE EDUCATION SYSTEM**

At the current stage of education development, one of the key issues is the informatization of the education system. It involves new information and communication technologies (ICT), namely, educational oriented technologies, the advanced tools of training, the creation and use of a modern computer-oriented learning environment, the gradual development of computer-based technology platform of information learning space, electronic information educational resources (collections of digital educational resources) and network services.

The tools and technologies of information and communication networks (ICN), including the Internet are being increasingly and dynamically developed. Due to the science and technology achievements in the field of ICT, the leading functional and technological characteristics of the ICN have evolutionarily