DISCUSSION PLATFORM 4

LANGUAGE COMPETENCES OF A SPECIALIST
IN CONDITIONS OF GLOBALIZATION

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SMART EDUCATION IN THE GLOBAL WORLD

The author considers smart education and its basic principles in the global world. The author shows that smart education is a learning process in which technology innovations and Internet resources are used in the global world. After all, it gives students the opportunity to gain professional competence on the basis of a systematic multivariate vision and study of disciplines, taking into account their multidimensional and continuous updating of content. The author also notes that education which based on three educational activities, namely, arithmetic, reading, writing, transforms into education, which improves the following seven skills as creativity and innovation; communication; cross-cultural understanding; collaboration and leadership; critical thinking and problem solving; ICT literacy; career and life skills.

Keywords: *smart education, eLearning, technology, student, teacher.*

Нежива Ольга. Smart-освіта у глобальному світі.

Автор розглядає smart-освіту та її основні принципи у глобальному світі. Також автор показує, що smart-освіта являє собою навчальний процес у якому використовуються технологічні інновації та Інтернет-ресурси. Адже це дає можливість слухачам досягнути професійні компетенції на основі системного багатовимірного бачення і вивчення дисциплін, з урахуванням їх багатоаспект-ності і безперервного оновлення змісту. Також автор відзначає, що освіта, яка базується на трьох навчальних діяннях, тобто на арифметиці, читанні, письмі, переходить до освіти, що удосконалює такі сім вмінь як: творчість та інно-

вації; комунікацію; міжкультурне взаєморозуміння; співпрацю та лідерство; грамотність у сфері ІКТ; кар'єру та життєві навички, критичне мислення та розв'язання проблем.

Ключові слова: *smart-освіта, електронне навчання, технологія, студент, викладач.*

Formulation of the problem. A man is an association with the mass computerization in the 21st century. After all, he creates an incredible amount of advanced computer technologies which have greatly facilitated his life. More and more material and technical values have gained distinction and affected an educational process. Of course, the appearance of the World Wide Web has made its own adjustments to change of the learning concept.

In such a way, smart education was set up in the 21st century. The word smart has English origin and translates as intelligent or technological. However, the scientific leader of the School «Education in the Information Society» of the Moscow Economics and Statistics Institute, V.P. Tikhomirov explains this term as a new property which characterizes the Internet integration in this object of two or more elements which were not previously combined (Tikhomirov, 2014). Since the term smart is an abbreviation of words such as self-directed, motivated, adaptive, resource-enriched, technology.

Therefore, smart education is an educational process which uses technological innovations and Internet resources. It allows students to gain professional competence on the basis of a systematic multidimensional vision and study of disciplines, taking into account their multidimensional and continuous updating of content.

The analysis of recent studies and publications. The necessity for the introduction of innovative technologies in the educational process was studied by many scientists. The starting points of this topic we can find in the works of classical scholars such as M. Heidegger «Questions about technology», K. Jaspers «Modern technique», O. Spengler «Man and technique» and others. Today they have been further developed in the researches of Ukrainian and foreign scientists. The relevance of the problem is also proved by a large number of publications and studies on the topic of both domestic and foreign scientists, including V. Bezrukov, I. Zverev, V. Krayevsky, N. Loshkareva, R. Martynova, A. Petrovsky, N. Talyzina, Yu. Tyunnikov, A. Usova, G. Fedorets, D. Grace & A. Picard, J. Kirtland & P. Hoh, M. Matthews & J. Rainer, M. Shore & J. Shore et al.

The objective of this paper is to implement a comprehensive analysis of smart education and its basic principles nowadays.

Presenting main material. Education becomes more accessible with the development of technologies such as YouTube, Cloud technologies, distance learning forms, Facebook, Twitter, blogging, Google, etc. You can study through the Internet all over in the world and at any time. You are able to choose the field of knowledge,

including on-professional, and immerse yourself in it as much as you are interested. A very important factor is free-of-charge basis of many resources.

What do we mean by the term smart education and how much do we implement it in the process of teaching students? Of course, smart education is the application for educational purposes of smart phones, tablets, interactive whiteboards – smart boards, other devices with access to the Internet, as well as various training programs and applications. However, the creation of an integrated intellectual virtual environment is more important for all participants of the learning process.

The introduction of information and communication technologies in the educational process, the creation and use of multimedia facilities is transformed into the virtual plane. E-learning and multimedia technologies activate the cognitive process and provide the opportunity for visualization of the educational materials.

In classes, we use such technologies as collaborative student work, joint work of students, etc. Working with Google forms allows teachers to conduct not only surveys but also develop tests. In addition, students use electronic libraries to share educational materials both in the classroom and at home. New opportunities for our students are opened with the use of distance learning forms.

The learning process becomes interesting and modern when teachers continuously update educational content and attract the students to the development.

Each of us is surrounded by «smart home» every day, we build «smart cities» which need to be adapted to the needs of people and make our lives better and more comfortable. So the transition to smart education is a requirement of the time, simultaneously condition and opportunity of society development.

Smart education is a study based on the use of an interactive educational environment. The goal of smart education is to provide future professionals with the necessary skills to implement successful professional activities in a digital society and a well-developed economy. It provides an opportunity for students to learn using electronic education complex (learning, teaching, professional development, educational leading, etc.) which contains lecture and laboratory materials, materials for testing, references for the course of study, tasks for the final examination, the ability to view the work of students who have completed course for previous years.

The concept of smart education is to create an intellectual environment for the continuous development of the competencies of the participants in the educational process, including formal and informal learning processes based on advanced technology.

Smart education opens up new challenges for teachers. They should be not only professionals in their professional field, but also have smart innovations in educational and scientific activities. Teachers should have the widest variety of multimedia (audio, video) and the ability to use different technologies for working with students (Ovcharuk O. and Soroko N., 2016).

Smart education opens up new opportunities for teachers. These are:

- to share experiences and ideas;
- to do more research activities;
- to personalize the course of study depending on its tasks and the competence of the listener and to save time.

A teacher of smart education is a person who is represented on the Internet through presentation of courses; check of tasks; holding of correspondence; video and web conferencing; video-lectures; distance learning; virtualization of scientific research, etc.

Thus, the key to understanding smart education is the wide availability of knowledge. As a result of the introduction of smart education, students will be able to freely receive the necessary information and increase the level of using innovative technologies, which in turn will be able to meet the growing demands of students as much as possible, create a stable motivation for gaining knowledge, point out the importance of learning and further self-education for a successful future and growth.

Within the framework of smart education, a new discipline will acquire new qualities, which must simultaneously provide both the quality of training and motivate the student to study, including both multimedia fragments and external electronic resources. At the same time reading the textbook should take no more than 20–30% of the time (Kovalchuk V. & Vorotnykova I., 2017). The same requirements should be met by the smart textbook, which should be developed on the basis of the use of technological innovations and Internet resources. Technological requirements for the creation of a smart textbook include the use of cloud technologies, the expansion of multimedia tools, and the interactivity of educational tools, automatic filtering by level of material development (knowledge rating), group work of collaborators and readers in the Internet, creating content through the student's personal cabinet.

As a result, the concept of smart education is a key component of the future education, i.e. the expansion of time, space, teaching methods and teaching materials for a large number of sources and, of course, a huge variety of multimedia materials such as audio, video, graphics and with that, which can be easily arranged in accordance with the requirements and levels of listeners. All this means that there is a transition from education focused on three educational activities, namely arithmetic, reading, writing, to education which improves the following seven skills (7 C's) in the 21st century such as:

- creativity and innovation;
- communication;
- cross-cultural understanding;
- collaboration and leadership;
- critical thinking and problem solving;
- ICT literacy;
- career and life skills.

In addition, smart education for its development contains certain tasks. These are such tasks as the development and implementation of electronic textbooks, strengthening of education in the field of ICT ethics for solving ICT-related social problems, foundation of educational services, improving the skills of teachers in order to widely apply smart education. For the reason that the transition to smart technologies will form new requirements for teachers who must be not only well-informed in their professional field, but also have a wide worldview. Furthermore, the teachers should use different technologies to work with their students and create online classes or electronic evaluation system of knowledge. In addition, the teachers should widely use educational resources for public purposes, etc.

Besides, smart education is considered to be easy to manage. It can be managed by the educational institution through the flexibility of the educational process. This is an internal management. Furthermore, there is an external management. That is, it is constantly fed by external sources. It goes without saying, that smart approaches must not provide ready-made knowledge. They should create conditions which will enable students to acquire skills and personal experience.

Therefore, these strategies help every student of the century to gain the basic knowledge and professional skills which he needs. Moreover, students gain them at anytime and anywhere to further use in the future. Furthermore, they will become competitive in their field of activity.

However, Ukraine does not yet have enough research and organizational work to adapt specialists to the rapidly changing requirements of the 21st century to achieve world standards.

In our opinion, Ukraine needs to consider today the implementation and implementation of electronic «distance learning forms» as one of the types of smart education which is already extensively used by progressive country in the world. It stands to mention the main advantages of this education such as:
- personification;
- the ability to combine learning content to form a variety of training programs;
- the opportunity to get much more information necessary for assessing the knowledge, skills and abilities received as a result of the training;
- much cheaper in comparison with traditional full-time education;
- use a wide range of different learning tools;
- the provision of access to quality education to people who, for one reason or another, have no opportunity to study in a traditional way.

Taking into account a number of positive aspects of eLearning, it can be said that the introduction of this type of training is a mutually beneficial agreement between the applicants of education and the educational institution.

Today, eLearning of Ukraine can be proper developed upon the availability of:
- regulatory framework;
- students population;

- qualified teachers;
- training programs and courses;
- appropriate material and technical base;
- financial support, etc.

Conclusion. Smart education provides new opportunities for teachers, professionals, students, as well as anyone who is interested in learning. Interactive technologies help the student, who collaborates with the software system, selects and analyzes the information which he needs.

The main characteristics of such a study are:

• student studies at a convenient time and in a convenient place;

• training can be carried out simultaneously with professional activity or with training in another direction;

• student has an opportunity to receive education in educational institutions of foreign countries, without leaving his country and provide educational services to foreign citizens and compatriots living abroad;

• student receives the necessary information regardless of time and location;

• there is an opportunity to start learning any issues in the program depending on the level of training.

In addition to the above, social equality is ensured i.e. equal access to education regardless of place of residence, health condition and social status.

Smart education expands and updates the role of the teacher. Smart education also makes the teacher as a mentor-counselor, who should coordinate the cognitive process, constantly improve the material being taught, and enhance creativity and qualifications. Moreover, teachers have new opportunities such as:

- teachers have an on-line connection with students and use innovative teaching materials;
- teachers can make the most of different types of multimedia;
- teachers use new educational technologies;
- teachers personalize the program of discipline depending on the tasks and competences of the students;
- teachers create information exchange networks and establish cooperation between higher education institutions;
- teachers form a combined real and virtual space.

Thus, the introduction of smart technologies in education will lead to the transition from the old system of reproductive knowledge to a new creative form of learning using innovative methods and will provide the necessary knowledge and skills which will be crucial for the student in the future.

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