

**IN THE CONDITIONS OF INFORMATIZATION OF EDUCATION
IN THE INNOVATIVE ACTIVITIES OF THE PEDAGOGICAL OF
VOCATIONAL EDUCATION
SMART-FEATURES**

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Annotation

This article presents the tables of smart features of the innovative activity of the pedagogical of vocational education in the conditions of informatization of Education, which consider the peculiarities of smart education in the activities of educators.

Keywords: smart, smart education, smart specialties, innovative activities, informatization, smart society.

Socio-economic developments in the world are largely determined by the dependence of society on the requirements for the educational system and the conditions for the implementation of Education, rapid changes in such conditions have strengthened the need for modernization of the goals and strategies for the development of education on the basis of information and communication technologies. The wide introduction of modern information educational technologies, electronic programs, the creation of electronic educational resources, the development and implementation of educational and methodological support of teaching methods based on innovative activities expand the possibilities.

According to international and Republican conferences on educational problems, seminars of higher educational institutions, the following contradictions and contradictions have been identified in the educational process:

- Limited scope of educational resources;
- Decrease in the quality of Education;
- weakening of competitiveness in the world labor market;
- increased need for innovation and innovators in education.

In our country, special attention is paid to the organization of the process of professional education based on the requirements of the time, including the introduction of information technologies in the system of professional education. In particular, the decree of the president of the Republic of Uzbekistan dated January 25, 2018 no PF-5313 "on measures to radically improve the system of general secondary, secondary special, vocational education"[1], dated February 3, 2018 no PP-3504 "on improving the activities of the Center for higher and secondary special, vocational education of the Republic of Uzbekistan «and the content of other regulatory documents relevant to this activity, it is

The dominant direction in the development of the modern educational system is the informatization of education; this direction is characterized by the following innovative processes:

- implementation of informatized educational services based on electronic and distance learning technologies;
- development of open digital educational content and software and methodological support based on interactive and multimedia technologies;
- creation of telecommunication structures (information and educational environment, educational portals). In such conditions, there is a need for teachers who are ready for innovative activities in accordance with the requirements of a modern informatized society in the preparation of educators for professional activities.

The concept of " informatized society " was first used in Japan, which is described as follows: an informatized society expresses a society in which high-quality information prevails, and the storage, distribution and use of information is carried out using modern means based on computer technology.

One of the founders of the theory of an informed society is E.Toffler described the facets characteristic of such a society as the "third wave" as follows: a high level of innovation in all aspects of political and economic life; the nature of the orientation of Labor, interpersonal relations towards psychological, social and ethical goals; the influence of excess information on a person's culture; the orientation of culture and society towards each person.

In the studies of pedagogical scientists, the main characteristics of the now informatized society are substantiated. In an informed society, a separate person, person or group of enterprises may acquire information and knowledge on the basis of automated disposal to solve tasks of great importance anywhere and at any time.

Thus, an informed society is a process of creating optimal conditions for the realization of the rights of citizens and their needs for information on the basis of the formation and use of all kinds of information technologies, computer telecommunications, information resources, both socio-economic and scientific-technical.

The technological innovation of the last decades testifies to the fact that in the XXI century, the information society has entered a qualitatively new stage in its development. Accordingly, at the "Big twenty" summit in Seoul in 2010, a new stage of an informed society is shown - the SMART-Society stage, in which the use of high-tech technical means and the internet by people determines a new quality of interaction between citizens, public institutions, private companies and leads to an improvement in the social, economic spheres of living activity. The concept of " SMART " emphasizes a new modern stage in the development of society, it is based on a change in the social paradigm, the process of generating new ideas, knowledge and intelktual capital by people, in which they will be prepared to implement and support these processes using innovative technologies [2].

<https://conferencea.org>

The idea of SMART society expresses the desire to improve all aspects of human life in the conditions of the modern information environment, which is determined not only as an information carrier of a person, but also as an active sphere of influence of human informational activity. The modernization of the information environment based on SMART education and modern innovative technologies, which has become the first - place direction for most countries, is today manifested as a global trend [3].

The philosophy of the development of SMART society in Russia academician V.P.The Scientific School of Tikhomirov is actively researching, where the problems of reorganization of the information society into the SMART society are studied in depth, and on the basis of this, electronic teaching technologies are gradually being developed [4].

XXI century is a century when information technology has become an integral part of the human life space. Today, mobile phones, computers and the internet are natural elements such as nature and society, and we can safely say that there is a new generation of digital (network). In the publications of the current period, devoted to the problems of education in an informed society, the facts of the existence of a "digital" generation of people are emphasized, for which life is considered as a natural element of activity, mobile and mobile means of communication. V.P.Tikhomirov presented his vision of what a graduate of an innovative educational institution should be like: "a citizen of a SMART society (SMART-man) will study all his life-learn, create innovations, together with the government, look for ways to solve social problems, become a citizen of the world. Those who are prepared for the benefit of the Internet and technology will bring new economic and social benefits, create a new culture."

Academician A.P.Yershov described informatization as a set of measures aimed at ensuring reliable, complete and timely full benefit from knowledge in all socially significant types of activity of a person, indicating that informatization of education is a means of solving pedagogical problems using new information technologies in the form of a lever that allows you to qualitatively change the methods and organizational forms of pedagogical activity. This idea has become the basis for the modern interpretation of this concept.

Informatization of education is an organizational process aimed at creating scientific and pedagogical, educational and methodological developments aimed at bringing to the surface the capabilities of the means of information and communication technologies used in favorable and health – preserving conditions, as well as providing the educational sphere with the methodology, technology and practice of their optimal use.

Informatization of education is an urgent scientific direction, the conceptual, methodological and theoretical foundations of which are Ya.A.Vagramenko, S.G.Grigoriev, V.V.Greenshkun, S.D.Karakazov, K.K.Kalin, M.P.Presented in the scientific work of Lapchik and others.

Considering the current state of the problem of informatization of the educational system, it is necessary to emphasize the large – scale and complex nature of the introduction of Information Technologies, which allows to achieve two strategic goals-the effectiveness of all types of educational activities and an increase in the quality of training specialists corresponding to the requirements of an informed society [5].

Thus, analyzing modern directions in the development of informatization of an informed society and education, it is envisaged that SMART-education (SMART-education) is "flexible learning in an interactive learning environment using freely accessible, all – world content." SMART learning technology will allow educators to generate new knowledge and form a SMART person, such a person will be able to perfectly use information and communication technologies to search for information, analyze and create innovation.

REFERENCES:

1. Decree of the president of the Republic of Uzbekistan dated January 25, 2018 PF-5313 "on measures to radically improve the system of general secondary, secondary special, vocational education" // www.lex.uz
2. Technologii, opredelyayutshie budutshee obrazovaniya. Obrazovatel'naya Galaxy Intel. - Mode dostupa: <http://edugalaxy.intel.ru>.
3. Tikhamirav V. P. Mir na puti K Smart-Education: novie vozmozhnosti dlya razvitiya. - Mode dostupa: <http://slideshare.net/PROE-learning-smart-education>.
4. Tikhamirav V. P. Predposilki formirovaniya Smart-obtshestva / V. P. Tikhamirav, N. V. Dneprovskaya, I. A. Koreskaya // Smart Education: proekt po razvitiyu Smart V obrazovanii. - Mode dostupa: <http://smartmesi.blogspot.ru/2012.02-smart.html>.
5. Lapchik M. P. Russia na puti K smart obrazovaniyu // J. Informatics I obrazovanie. – M. 2013. - № 2. - S. 3-9.
6. Tikhamirav V. P. Elektronnoe obuchenie v informationnom obtshestve. Novaya paradigm v obrazovaniya. Novie vozmozhnosti dlya modernizatsii Rossii // Informationnoe soobtshestvo: material VIII Tverskogo sosial - ekon. Foruma (30 June-1 July 2011 g.)- Mode dostupa: <http://www.gosbook.ru/-node/27900>.
- 7.Тожимаматова М. Ё. Изучение процесса выделения соединений магния из доломитов месторождения Шорсу //Universum: технические науки. – 2019. – №. 11-3 (68). – С. 33-36.
- 8.Кодирова Д. Т. и др. ФИЗИКО-ХИМИЧЕСКИЕ ПРОЦЕССЫ ПРИ ПОЛУЧЕНИЕ МАГНЕЗИАЛЬНЫХ ВЯЖУЩИХ ИЗ ДОЛОМИТОВ ШОРСУ //Oriental renaissance: Innovative, educational, natural and social sciences. – 2022. – Т. 2. – №. 5. – С. 1243-1247.
- 9.Тожимаматова М. Ё. ФИЗИКО-ХИМИЧЕСКИЕ ПРОЦЕССЫ ПОЛУЧЕНИЯ МАГНЕЗИАЛЬНЫХ ВЯЖУЩИХ ИЗ ДОЛОМИТА И МАТЕРИАЛОВ НА ИХ ОСНОВЕ //Главный редактор: Ахметов Сайранбек Махсутович, д-р техн. наук; Заместитель главного редактора: Ахмеднабиев Расул Магомедович, канд. техн. наук; Члены редакционной коллегии. – 2021. – С. 39

10. Baymatov P. J. et al. Features of the chemical potential of a quasi-two-dimensional electron gas at low-temperatures //International Journal of Modern Physics B. – 2021. – Т. 35. – №. 05. – С. 2150070.

11. Muradova F. R. et al. Psychological aspects of computer virtual reality perception //Journal of critical reviews. – 2020. – Т. 7. – №. 18. – С. 840-844.

12. Muradova F. R., Kadyrova S. M. The use of innovative methods in education //Проблемы и перспективы развития образования. – 2019. – С. 62-63.

13. MURADOVA F., MURADOVA Z., KADIROVA S. Methods of development of educational electronic resources //Eurasian Journal of Science and Technology. – 2019. – Т. 1. – №. 2.

14. Тожимамадова М. Ё. Изучение процесса выделения соединений магния из доломитов месторождения Шорсу //Universum: технические науки. – 2019. – №. 11-3 (68). – С. 33-36.

15. Кодирова Д. Т. и др. ФИЗИКО-ХИМИЧЕСКИЕ ПРОЦЕССЫ ПРИ ПОЛУЧЕНИЕ МАГНЕЗИАЛЬНЫХ ВЯЖУЩИХ ИЗ ДОЛОМИТОВ ШОРСУ //Oriental renaissance: Innovative, educational, natural and social sciences. – 2022. – Т. 2. – №. 5. – С. 1243-1247.

16. Тожимамадова М. Ё. ФИЗИКО-ХИМИЧЕСКИЕ ПРОЦЕССЫ ПОЛУЧЕНИЯ МАГНЕЗИАЛЬНЫХ ВЯЖУЩИХ ИЗ ДОЛОМИТА И МАТЕРИАЛОВ НА ИХ ОСНОВЕ //Главный редактор: Ахметов Сайранбек Махсутович, д-р техн. наук; Заместитель главного редактора: Ахмеднабиев Расул Магомедович, канд. техн. наук; Члены редакционной коллегии. – 2021. – С. 39.

17. Baymatov P. J. et al. Features of the chemical potential of a quasi-two-dimensional electron gas at low-temperatures //International Journal of Modern Physics B. – 2021. – Т. 35. – №. 05. – С. 2150070.

18. Muradova F. R. et al. Psychological aspects of computer virtual reality perception //Journal of critical reviews. – 2020. – Т. 7. – №. 18. – С. 840-844.

19. Muradova F. R., Kadyrova S. M. The use of innovative methods in education //Проблемы и перспективы развития образования. – 2019. – С. 62-63.

20. MURADOVA F., MURADOVA Z., KADIROVA S. Methods of development of educational electronic resources //Eurasian Journal of Science and Technology. – 2019. – Т. 1. – №. 2..