

Sociology of education: innovative processes

Transformation processes which take place in modern Ukrainian society – democratization, reformation of education, achievements of science, are based on national and historical acquisitions of the Ukrainian people. Progressive tendencies in development of society have a deep historical root. It is possible to say that achievements which national school has today considerably based on the accumulated experience of the past: organization of the lesson, use of methods of studies, forming of teachers and work with them, free providing of students with textbooks, study guides, creation of the proper conditions for conducting teaching and educational process and others like that. Modern educational processes which are based on the state complex program „Teacher” and National doctrine of education development of Ukraine in the XXI st century (2002) are functioning on the legal field, which is based on Constitution of Ukraine and aimed at subsequent development of public education, spiritual potential of society, revival of national consciousness [8]. Today’s world both in global and in the local measuring changes intensively. These changes require new approaches of preparing a person for life, especially by means of education. At the same time, traditional education, protecting in a whole its constructive sense, in a great deal, remains behind from the necessity of the day, and more than that, from perspectives which are already expected by a man in the nearest future.

As researches show, education must have innovative character to answer the requirements of the time. Innovation process in education - permanent novelties in activity of educational institutions, in educational process - is that urgent necessity without satisfaction of which it will lose intercommunication with life, the creative potential, grow into conservative business, not necessary neither society nor a personality. Life requires intensification of the search, experimentation, insertion of new technologies, using of new methods of education.

The term “information technologies” is connected with using of data processing systems in combination with the various «peripheral» devices such as: monitor, printer, scanner, devices for transformation of facts from the graphic and voice forms of supplying the information in numerical and vice versa and others.

The content, main trends and means of innovative development of education complexly is presented in works of V,Andryshenko, I.Bech, V.Bech, G.Volunka, I.Zuzina, V.Kremenja, V,Kyrulo, V.Lygovogo, M.Muchalchenko, V.Ognevjuka, I,Prokopenka, O,Savchenka.

At the same time,disregarding great amount of publications, analysing the role and importance of information technologies, as a mean of innovative development of

education can not be considered outspent. There is a number of problems which do not have in scientific works more or less satisfactory covers.

A discussion as for the model of innovative development of domestic economy which is directly connected with the discussion in relation to the model of innovative development of the system of education developed in domestic literature of recent years. Also in domestic and Russian science a question is discussed in relation to two basic sources of innovations – borrowing of front-rank overseas experience, from one side, and own innovative developments, from the other. [4].

Actuality of the problem is stipulated by activation of introduction of information technologies in spheres of education, which are instrumental in revolutionary upheaval in all spheres of vital activities of man. It is important to make the analysis of place and role, estimate the value of information technologies in the process of innovative development of education.

According to our point of view, from all the points, a sphere of education must be the first priority for the state. A country, which does not have the system of education, which will be able to prepare people of higher qualification, unavoidable will fall behind in a technique and technologies in comparing to the front-rank states of the world[9].

In a political rivalry it also does not have chances on success. At first, most inventions and innovations offer exactly on the basis education which you have got – knowledges and skills which it gives. Secondly, exactly the system of education prepares those skilled employees activity of which can provide wide embodiment of innovations. Thirdly, positive influence is provided on all spheres and industries of economy. Fourthly – the state, providing the citizens on education, plays an important social function, related to the innovations: high-paying work, active forming of the vital necessities (that provides demand for the market of innovative commodities), and others. Нарешті, по-п'яте, саме система освіти дозволяє долати протиставлення запозичених та вітчизняних інновацій Finally, exactly the system of education allows to overcome contrasting of the borrowed and domestic innovations [10].

In the best standards innovative education is oriented on the transmission of knowledge, skills and abilities which allow to acquire knowledge independently. At the same time, today traditional education as system of receipt of knowledge falls behind from the real necessities of modern society.

Introducing newest technologies is instrumental in forming new category - concept device. In scientific terminology new concepts appeared: "innovative ability of nation", "innovative education", "social technologies", is entered in works of V.E. Shukshunova, V.F. Vzyatisheva, L.I.Romankovoy and other authors [3]. Development of forms of innovative education – is only a part of general process of acquisition practice of human activity of innovative character only. Any innovative process requires possession of informative resources and of communication

technologies. A problem doesn't consist of getting the total set of such technologies, problem is to build the correct system of their usage in accordance with strategy of that or other development. According to the research of L. Bertalanfi the innovative education is a model of education which is oriented mainly to maximal development of creative capabilities, creation of strong motivation to self development of individual on the basis of the voluntarily chosen «educational path» (sphere, tendency, level, chain of education, type and kind of educational institution and so on) and sphere of professional activity [2].

Information technologies according to determination of M.I. Zheldak is the «combination of methods and technical means of collecting, organization, storage, treatment, transmission and presentation of information which extend people's knowledge and developing their possibilities on a management technical and social processes»[1]. Information technologies also allow to realize principles of the differentiated and individual approaches to the teaching. They can be used both for permanent and corresponding also for distant approaches to the education and also allows to implement world tendencies in education, possibilities to going out into the common world informational sphere. Application of computer technologies allows to promote the level of self-education, motivation of educational activity; gives absolutely new possibilities for creation, receipt and fixing of different professional skills, and, certainly, conform to a social order which the state put forth to the Institutes of higher education. The use of the system of multimedia allows to combine the computer possibilities and teacher's knowledge, to inculcate creation of electronic textbooks. Today Institutions of higher education have an access to the informative resources outwardly due to the Internet, often own personal informative databases and set of necessary technologies for work with them. Presently effective activity of Institutions of higher education in the field of education is impossible without its informatization. It promotes consolidation of resources and creation of the internal informative systems of Institutions of higher education. The purpose of the last consists in global intensification of intellectual activity on the basis of the use of new information technologies: computer and telecommunication [1].

New information and communication technologies considerably extend possibilities of higher school for embodiment in practice the idea of continuous education and have a possibility in a prospect perceptibly to change organization of receipt of higher education in a country [11]. Not by chance former president of the USA B. Klinton proclaimed a necessity of connecting to the network the Internet of every class of American secondary school [6].

On the present stage of public development the range of problems of innovations has already went out of limits of economic conceptions and approaches and more actively includes the problems of pedagogics, psychology, sociology, general theory of management and other disciplines, and is considering as basis of

planning and conducting of new complex scientific researches which require systematic approach.

The modern stage of transformation of economy of Ukraine foresees the intensive technological and informative development of society. At the same time we need to mention that the modern market of computer facilities in Ukraine differs from foreign and straggle on 4-7 years.

Innovative studies foresees the disposition to the actions in new conditions, research of that which can take place or is necessary [7]. A.V. Kal'yanov marks suitably, that today competitive specialist of certain speciality except for deep professional knowledges, must freely possess a modern computer technique, to use new information technologies in the professional activity, to have a wide possibility to get self-education of providing of effective studies and self-training [5]. Development of forms of innovative education is the part of general process of acquisition practice of human activity of innovative character only. Any innovative process requires gaining proficiency in the domain informative resources and of communication technologies. A problem consists not in capturing the total set of such technologies, but in building the correct system of their use in accordance with strategy of that or other development.

Today in Ukraine certain conditions are created for introduction in the different spheres of activity of the newest information technologies. At the same time there is a number of problems which need to be liquidated or to be softened. First of all it relates to the following things:

- equipping of Higher Education Institutions with necessary amount of computers and telecommunications ;
- unreliability of work of electronic facilities, which is connected with frequent failures in energy supply;
- the use of new computer informational technologies of work with the bases of information restrains not enough active distribution of these technologies among teachers, research workers and management vehicle of Hogher Education Institutions;
- mainly enthusiasts are engaged in application in practice of new information technologies in the Higher Education Institutions much of which does not have the special education of creation and exploitation of the systems of studies ;
- high capacity of professors and teachers staff which at the terms of informative explosion does not have time to master new material and to prepare with high-quality for classes;
- information technologies are used in studies, mainly for demonstration of processes and phenomena, that are connected with concrete educational disciplines.

Complexity of solving the problem of informatization of higher education consists in the development of information technologies at higher school today largely forestall the processes of creation of informative environment [10]. The purpose of informatization of higher education of Ukraine consists in global rationalization of intellectual activity due to the use of new information technologies, radical increase of efficiency and quality of preparation of specialists to the level which is attained in the world developed countries, that trainings of personnels with a new type of thoughts which answer the requirements of informative (postindustrialised, postkapitalised, tekhnotronic, modern) society. As a result of achievement of this purpose in society mass computer literacy and forming of new informative culture of thinking must be well-to-do by individualization of education.

So, as a final result, complex informatization of higher education will allow to use effectively the followings major advantages of new information technologies:

- a possibility to build open system of education, that provides each personality the will of choice own path self-education ;

- fundamental change of organization the process of cognition by the change of it aside to systematic way of thinking;

- комп'ютера effective organization of cognitive activity those who are studying with the use of computer;

- use of specific properties of the computer, to major of which belong: possibility of organization of process of perception which supports the creative, active approach for the educational process in all his links; individualization of educational process is at the maintainance of his integrity; possibility of using and organization of principlly new cognitive facilities, in particular, such, as a calculable experiment;

- increase of effectiveness of scientific researches and also the quality of management process[10].

Also, active and expedient use by the students of higher educational establishments of scientific and technical resources, information technologies, as a main source of revival and development of the country, effectively will be instrumental in dynamic growth of economic potential and social welfare of Ukraine.

Література:

1. Андреев А.А. Компьютерные и телекоммуникационные технологии в сфере образования // Школьные технологии.- 2001. — №3.- С. 153-169.

2. Бергаланфи Л. Общая теория систем: критический обзор // Дослідження по загальній теорії систем. - М.: 1969.

3. Ващенко В. Інноваційність та інноваційна освіта. // Alma mater (Вісник вищої школи). - 2000. - № 6. - С. 23-25. Ващенко В.

Інноваційність та інноваційна освіта. // Alma mater (Вісник вищої школи). - 2000. - № 6. - С. 23-25. Шукшунів В.Е., Взятйшев В.Ф., Савельєв В.Ф., Романкова Л.И. Направления развития инновационного образования// Высшее образование в России.- 1994.- № 2- С. 13-28

4. Иванова Н. Национальные инновационные системы. – М., 2002.

5. Кальянов А.В. О концепции информатизации учебного процесса // Методологія сучасних досліджень соціальних, економічних та психологічних проблем: Тематичний збірник наукових праць. – Донецьк, 2001. – С.84.

6. Кремень В.Г. Система освіти в Україні: сучасні тенденції та перспективи // Професійна освіта: педагогіка і психологія. Польсько-український журнал. – К., 2000. - № 2. -С.12.

7. Козлова О.Г. Основні стратегії педагогічного впливу при традиційному та інноваційному підходах до навчання // Проблеми освіти: Науково-методичний збірник: Випуск 19. – Київ: Науково-методичний центр вищої освіти, 1999. – С.64-65.

8. Мінц М.О. Розвиток початкової освіти на Півдні України (1861-1917 рр.) / Автореферат дис. ... к.і.н. 07.00.01. Запоріжжя, 2007. – 19 с.

9. Пидаєв А.В., Передерий В.Г. Болонский процесс в ЕвропеЧто это такое и нужен ли он Украине? Возможна ли интеграция медицинского образования Украины в Европейское образовательное пространство? – Одесса: Одесский гос. мед. ун-т, 2004. – С.9-10.

10. Олійник А.І. Інформаційні технології як основа і засіб реалізації інноваційних процесів в сучасній освіті / Автореферат дис. ... к.ф.н. 09.00.10. Київ, 2008. – 20 с.

11. Сисоева С.О., Алексюк А.М., Воловик П.М., Кульчицька О.І., Огаєва Л.С та інші. Педагогічні технології у неперервній професійній освіті. - К.: ВППОЛ, 2001. – С.105.