

THE MAIN DIRECTIONS OF INNOVATIONS DISTRIBUTION IN THE SPHERE OF THE HIGHER EDUCATION

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Аннотация: В данной статье обосновывается необходимость и описываются способы распространения инноваций в сфере высшего образования во все более усложняющемся современном обществе.

Abstract: This article opens questions of necessity of innovation development and ways of distribution of innovations in the sphere of the higher education in modern society.

Ключевые слова: Инновации, инновационные методы обучения, технологии, образование.

Keywords: Innovation, innovative methods of training, technology, education

Education's paradigm has remained invariable for centuries and only mechanism varies for knowledge and skills transfer from teacher (tutor) to student. And today there is just in the mechanism of knowledge transfer there are maximum of innovations such as the exam, the Bologna process, the computerization of the educational process, the Internet, distance learning, etc. [1]

Not long ago, a person was considered to be a specialist, if he/she had a certain set of skills, abilities and a certain volume of knowledge. However, in up-to-date world there is a trend of overload information, and the social life dynamics reduces the time when the knowledge and skills keep its actuality. That is why today there is necessary to organize people mentality that will conform to the latest achievements of basic science and will provide an opportunity to consider carefully in the development world. Today's specialist is a person able to constantly develop their knowledge, skills, abilities that will allow to navigate in plunge of information, it will make it possible to act professionally in the intensive information exchange, it will help to use the information for prove the decisions and planning. Thus, at the present stage of human civilization for the student it is important, not the accumulation of information in a particular field, but the learning of rapid development of new information, so the information resources of institution of higher education expand their boundaries, forming a unified educational information environment. This environment allows for the rapid innovations and the results of scientific research exchange in the educational process.

As the result of unified educational information formed environment it is complicated reality. In addition to classical reality nowadays there virtual reality is actively used. The interaction of these realities radically changes the whole human world. All spheres and the directions of human activity from science and education to everyday needs are spread in virtual environment; it caused the formation of the new requirements to the specialists. Modern professional should be prepared for professional work in all spheres of reality.

A little more than half of century ago, the using of technical facilities in teaching were rather limited. Today the situation has changed fundamentally, innovative learning tools have become widely used in institution of higher learning in the educational process. Through the active using of technical facilities and multimedia technology in daily educational practice of teaching, it is possible to form a new system of values and a new way of thinking. The information value is so great that the learning process of students uses a variety of innovative learning tools. With the using of modern technology it is easier for students to orient in information redundancy, and for teachers to prepare future professionals.

Innovation means novation, novelty. Innovation in education is the process of improving educational technology, a set of methods, techniques and training facilities. Today it is one of the most important aspects of the educational activity in almost every institution.

Innovations in the field of education have been caused by the crisis in education. It is logical fact that innovation is used to solve existing problems by proposing its solutions. New methodologies in the educational process with using of teaching facilities help change nature of the student's work, allowing to increase the interest in the educational process.

Today it is active government support of innovation in science and higher education sphere. Based on this fact, one of the main problem of higher education is the development of new concepts of education, the strategy and tactics of choice in educational priorities are based on it, giving this fact that higher education is becoming a decisive factor in the development, transformation and improvement of society, that is allowing the whole country to overstep new innovative technological limits. In other words, education is considered as a main factor of social and economic progress and the ensuring the sustainability of the social system.

It is an evident and inevitable process of Russia's integration into the international educational environment, it allows to expand the choice of programs, forms and teaching methods, to improve the system of inter-university networking, to provide even more effective information exchange, information and consulting mutual in the educational field. Universities should not only collaborate with the same, but it should also support academic mobility of students and teachers, promote collaboration without barriers between sides that are interested in the higher education development.

Although the majority of educational institutions are already used modern information technologies in teaching and had a good material and technical basis, they should not dwell on it, as the technique in the world becomes out of the date as quickly as it appears. The actuality of finding new ways for improving the informatization of the educational process will always arise. Now in the technology industry there is the next revolution connected with the expansion of cloudy and mobile technologies, social networking. As far as almost every student has tablet or smartphone, it became currently building a network infrastructure where any device can operate via Wi-Fi. Educational institutions are widely used social networks. Due to it high schools have the opportunity to communicate effectively with students and their parents, students and graduates, to organize remote learning. Teachers can build digital libraries, publish useful and interesting materials for students on the university's site, as well as sharing with expert opinion, discussion materials and problem solving. The level of students involvement in such discussions increases, and the problem can be solved exactly and completely owing to the collective participation. Providing scientific institutions and universities with new scientific equipment, experimental and testing facilities, it will promote increasing opportunities for research and development on the cutting-edge level, improving the realization of the scientific staff potential, increasing youth appeal and prestige of scientific activities.

Transformation of the Russia's leading universities in training, research and innovation systems are important part in the strategy of innovative country development. Innovation in the field of higher education allows to create and actively to promote on the basis of major universities technological and scientific parks, incubators, technology, innovation and technological systems of universities. This ensures that the active participation of scientists and students in the programs of technological development of knowledge-based industries. In the high schools there an important factor of this level is the such learning forms as training, project development, training in research organizations and industry. Technological equipment of the educational process must match the level of advanced science. Currently, the most successful in innovative nature of the educational activity there are the follow universities where students develop real projects in different economic sectors, and the applied and fundamental researching are carried out, educational technology are used, providing students with a choice of courses. Decision of problems of educational modernization will enable to form human and qualifying country's capital, based on the need of innovative economic development and geopolitical competitiveness of Russia.

In conclusion it should be mentioned that innovation and education are intertwined with each other. As new technologies have appeared it became possible to:

- improve access to education;
- create the conditions for a new generation of highly qualified personnel;
- create a different way of person mentality for moving from simple accumulation of knowledge to creation of mechanisms with self-search skills and researching.

That is why, it is possible to create professionals adapted to the modern world's conditions, which will be ready to realize their professional activities at a high level, to generate new ideas, to create better organization and control system. However, the spread of innovations in the field of higher

education requires investments - new tools, equipment, technologies, investments, etc. So today there is active government support of innovation in science and higher education. The humanity is coming to the status when the civilization's destiny will be determined by the intellectual and educational potential of the individual and society as a whole. Therefore, the education sector has the position as one of the most innovative industries, it determines the creation of innovation climate and the development of society as a whole.

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