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INTEGRATION OF SCIENCE AND EDUCATION AS A PRIORITY DIRECTION OF UNIVERSITY DEVELOPMENT

PhD, as.prof. Khakimov Zhamshid Oktyamovich

Tashkent State Technical University, Uzbekistan

khakimov-jamshid@mail.ru

Annotation. The article talks about the development of innovative activities of universities, examines the directions of this activity and the participation of universities in the innovative activities of industries.

Key words: innovation, university activities, innovation-active specialists.

Today, the integration of science, education and the production process is one of the most important conditions for Uzbekistan to become one of the most developed countries in the world. For this, Uzbekistan, along with other states, has all the necessary resources, scientific and practical potential and capabilities. The state proposes a strategy, outlines the directions along which the integrated system of national science and education should move, and the economic sector must specify the strategy.

The concept of innovation activity of a university includes the following areas:

1. Training:
 - specialists focused on the development of innovative activities of individual enterprises and the industry as a whole;
 - scientific personnel for innovative structures.
2. Creation, perception, evaluation, development and application of pedagogical innovations in the educational process.
3. Participation of the university in the innovative activities of the industry:
 - use of its laboratory and research base for scientific research and development;
 - teaching staff;
 - integrated structures;
 - generation of scientific ideas that are implemented in the innovation cycle;
 - provision of consulting services and examinations to innovative enterprises.

In order to be competitive in the educational services market, a higher education institution must include the results of innovative activities of the industry in its educational programs. Training standards are built from the standpoint of increasing the innovative activity of enterprises. Cooperation between a university and innovative companies within the framework of educational programs makes it possible to prepare a specialist with qualitatively new innovative thinking.

Today, innovative education has become as necessary, of course, as, for example, computer training or fluency in foreign languages by specialists from all sectors of the economy, production, and public administration.

Uzbekistan has the necessary resources (research base of higher educational institutions, teaching staff, close cooperation with innovative companies, jobs at innovative enterprises, etc.) to train innovatively active highly qualified specialists in order to develop the innovative activities of the Republic. Each higher education institution competitive in the educational services market develops, implements and uses educational innovations in its work. The innovative activities of a modern higher educational institution represent innovations in the methodological support of the educational process (creation of methodological literature, publication of electronic textbooks, etc.), in the technology of the learning process (distance learning, training in Internet classes, training together with developers of innovative technologies and etc.), provision of innovative educational services, etc.

The most interesting for us is the issue of university participation in the innovative activities of the industry, since, in our opinion, this area of innovative activity is more attractive for finding extra-budgetary sources of financing the activities of a higher educational institution.

The following trends in the integration of science and education in the Republic of Uzbekistan can be identified:

- the share of universities engaged in scientific research and development is steadily increasing;
- there is an increase in the number of workers performing research and development in higher educational institutions, which indicates the profitability of this field of activity;
- the university has three of the four components (scientific, personnel, technical and financial) that are necessary to create innovative products.

In addition, the above components are also points of integration of science and education:

- in the city of Tashkent, the research base of higher educational institutions is widely developed, in which highly qualified scientific and pedagogical personnel work, leading scientific organizations, innovative companies and a state scientific center are geographically close, a technology park is being created, and therefore there is a colossal demand for innovatively active highly qualified specialists for the development of innovative activities of the city;

- at the same time, the use of the innovative potential of a university is now limited due to the prevailing stereotype of the exclusively educational role of a higher education institution in the regional market. However, in countries with a developed system of economic relations, a university has long been an effective and self-

sustaining system that generates innovative ideas, carries out scientific developments, and also provides consulting services and examination services commissioned by innovative enterprises.

To summarize, we can say that in the conditions of modern competition in the educational services market, the main emphasis is on the university's ability to produce innovatively active specialists. Specific innovative training within the framework of leading scientific and pedagogical schools brings undoubted benefits to both the scientific community and individual researchers, and especially to production, society, and the economy. Therefore, the integration of science and education in a modern university makes it possible to provide new opportunities for the development of the higher education system.

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ОСНОВНЫЕ КОНЦЕПТУАЛЬНЫЕ ПОДХОДЫ К СОЗДАНИЮ СОВРЕМЕННОЙ УЧЕБНОЙ ПРОГРАММЫ ПО ИНФОРМАТИКЕ В ОБЩЕОБРАЗОВАТЕЛЬНОЙ ШКОЛЕ

**Хасанова Суманбар Хамрокуловна,
Жабборов Жамолиддин Синдарович**
Самаркандский государственный университет
xasanovasumanbar@gmail.com

Аннотация: В данной статье рассматриваются вопросы разработки концепции курса информатики и использования средств ИКТ при решении учебных задач, определение некоторых основных компонентов этого процесса: целей, задач, закономерностей, принципов, условий, содержания, разработка намеченного результата, критериев и показателей.

Ключевые слова: концепция, самосовершенствование, принципы обучения, образование, способность, самооценка, формирование, воспитание.

Согласно энциклопедии, основанной на латинском значении слова «conceptio» (понимание, система), это понятие представляет собой определенный способ понимания и истолкования каких-либо явлений, основную точку зрения, ведущую идею их развития, освещение; можно интерпретировать