Alimova. E.A

department of biological physics, informatics,

medical technology

Andijan State Medical Institute

PEDAGOGICAL DESIGN OF THE PORTAL SOFTWARE PLATFORM, WHICH EMBODIES MODERN INFORMATION AND METHODOLOGICAL SUPPORT

Abstract: *this article reflects on laboratory work in physics, demonstration experiments, methods of organizing and conducting solution of issues in the process of remote skill development in natural and virtual forms*

Keywords: *virtual form, Multimedia, self-control,integrated,demonstration-experiments.*

One of the most important trends in modernization is globalization, which manifests itself in many directions: political globalization, global economy, fundamental technological changes, globalization of culture, etc. General globalization trends are objectively manifested in the field of education, and this is mainly the development of transnational education and the globalization (unification) of universities. The model of the future educational system depends on the quality of training specialists and to what extent the elements of internationalization will be introduced. One of the important tools of globalization of higher education is information technology and the information and educational environment of a higher educational institution, formed and effectively developing with their help, which creates the conditions for the formation of a qualified specialist.

An important direction for the development of a unified information space of the university is not only special disciplines (for example, "informatics", "information

technology", "databases and data bank", "computer programs for information processing", etc.), the use of information and communication technologies in the educational process, as well as:

-the creation and introduction into the educational process of modern electronic means of its support and development in conjunction with traditional e-learning materials;

- development of tools for the support of Information Technology and the development of the educational process;

- ensuring the quality of electronic support and development tools based on standardization and certification of the educational process;

- training of pedagogical, administrative and engineering personnel;

- the formation of a university team that can effectively use new information technologies in the educational process.

World practice shows that there are two types of substantive guidelines in the field of informatization. The first type is the expansion of access to education through information and communication technologies (ICT). The second round is aimed at enhancing the role of Independent Education, mastering new acts and changing the quality of education through the use of additional educational resources. In particular, the creation and use of information portals and services allows you to achieve the specified instructions.

Researchers (Yu.S. Branovsky, V.N. Vasilev, S.K. Stafeev, M.V. Sukhorukova et al.) noted that many materials placed on educational portals do not meet electronic requirements. Therefore, in design and development:

In order for all educational information sources of information methodological support based on Portal technologies to work, it is recommended to take into account, without exception, general recommendations that are immutable in relation to the level of Education.

As the main basis for the design of information methodological support based on Portal technologies, it is necessary to use a universal model of the content of

educational material, which is based on dividing it into educational elements and visually reflecting the structure in the form of a hierarchy. The content model should also include a table of educational elements, in which psychological and pedagogical (didactic, psychological, methodological) requirements for its presentation and assimilation for each element are established.

When creating educational scientific resources based on Portal technologies, the programmer is obliged to do the following:

- clear definition of the content of educational material and educational goals;
- presentation of content in a visual and visible form;
- ensure the fullness of content and goals;
- ensuring continuity of academic disciplines;
- formation of a systematic (holistic) presentation for developers and users of Educational Scientific Resources;
-formation of requirements for the type, number and sequence of exercises for understanding and combining theoretical material.

The model of mastering educational material determines its educational elements and the sequence of studies of logical connections between them. The necessary quality of educational information resources can be achieved taking into account the scientific and practical achievements of modern psychology, pedagogy, ergonomics, Informatics and other disciplines.

Research on the perception of information on the portal by users allows you to formulate a number of general recommendations that must be taken into account when developing a method of visualizing information on the computer screen, both when working with the information resource itself and with the entire Portal

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