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CREATION AND USE OF SMART TECHNOLOGIES IN THE SUBJECT "INFORMATION TECHNOLOGIES IN EDUCATION

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Abstract

In the current information age, there are favorable conditions for teaching the subject "Information Technology in Education" on the basis of SMART technologies, as computer rooms in higher education institutions are equipped with the necessary equipment and have access to the global Internet. Therefore, one of the most pressing issues today is to teach the next generation how to create and use SMART technologies in the field of "Information Technology in Education" on the global Internet.

The technology of creating SMART technologies in the discipline of "Information Technology in Education" is a rather complex process and should be implemented in the following stages for the development, design and implementation of pedagogical scenarios [1]:

• Defining the didactic goals of SMART technologies;

• Development of the structure and content of SMART technologies;

• Carrying out technical work on SMART technologies;

• approbation of developed SMART technologies, identification of shortcomings and their correction;

• Development of methodological recommendations for the use of SMART technologies in the educational process.

The basic principles and requirements for the creation of SMART technologies should be as follows [2]:

• Development of the function and concept of SMART technologies;

• development and creation of corporate network connection on the territory of all educational institutions;

• uniting the creative staff of pedagogical staff of educational institutions;

• Ensuring an equal society in all educational institutions;

• organization and development of integrated information education;

• discuss the use of methodological products and programs, processing, modernization and orientation of processed products in the educational process;

• problem management and organization of seminars at different stages of pedagogical activity;

• formation of a single scientific and methodological work of the education administration;

• making decisions related to the pedagogical activities of any educational institution;

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• obtain information related to the pedagogical activities and scientific direction of the institution;

• Ensuring transparency and accessibility of the work of all participants in the development of SMART technologies;

• Acceptance and standardization of software developers and participants of SMART technologies, who are fully engaged in their development and approbation, without restrictions with methodological recommendations;

• Support and production of SMART technology entities on the basis of uniform certification requirements;

• Open and project discussion of the results of SMART technology development.

The developed SMART technologies must meet the following requirements [3]:

• be able to meet the requirements for the publication of the curriculum and teaching materials (approved by the Scientific and Methodological Council of the University);

• The development of SMART technologies as an electronic version of the first presented or previously published methodological manual in a particular field, and whether the content belongs to the general or special course;

• have enough volume to disclose the content of a particular course (or part of it) and to achieve educational and methodological goals;

• possession of visual elements (maximum use of computer multimedia capabilities) that help to achieve educational and methodological goals;

• taking into account the ability to view the material on the monitor screen and place it across the network;

• the presence of hyper-instructions in the text, if necessary, the indication of WEB sources and other information resources;

• availability of control questions that provide an independent assessment of the level of mastery of the training material;

• creation of special conditions for working in many languages and for listeners with disabilities.

In the creation of SMART technologies from mathematics in the global Internet, the design must comply with the laws of color composition, because it creates a certain mood. Red can provoke anger, while soft pastel colors do the opposite. Orange, yellow, red are warm colors. Blue, purple are cool colors. The combination of different colors is effective. Bright and warm colors should be primary and cool colors should be secondary

expedient. There should also be minimal animation effects, all the information should be well organized into small data blocks, the background should match the text font and title color, and the text should be easy to read. Do not use more than three colors that are compatible with each other (it is better to use shades of one color), do not use large fonts, SMART technologies used in the educational process should be able to use its capabilities.

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Files of SMART technologies intended for network deployment should not exceed 32 MB and should be able to download and use via mobile phones, smartphones and tablets.

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