

Use of Information and Communication Technologies in the Formation of Ecological Culture of Future Primary School Teachers

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ABSTRACT

Ecological education, primary school, educational process, ecological culture, use of funds, educational process, creativity created by students, science-methodical complex, motherland.

KEYWORDS: *environmental education, environmental culture, information and communication technologies, educational competencies*

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INTRODUCTION

One of the main directions of modern education is the greening of all areas of the educational process, the implementation of which is possible in the context of continuous environmental education and enlightenment. The most important link in the system of continuous environmental education is the school, where the foundations must be laid for a conscious, responsible attitude to the natural environment as a social and personal value. However, this can only be done if the teachers themselves are properly trained. One of the factors in modernizing the entire education system is to instill an ecological culture in students, given the annual influx of young teachers into schools.

LITERATURE ANALYSIS AND METHODOLOGY

President of the Republic of Uzbekistan Shavkat Mirziyoyev in his speech at the solemn ceremony dedicated to the Day of Teachers and Coaches on

September 30, 2020, said: In a word, they must be advanced representatives of our time and society, who can apply positive innovations in the educational process, have deep knowledge and worldview "[1]. In this regard, on the initiative of the President, it is proposed to implement a special program to actively involve young people in building a "green economy". It was noted that this will create a great opportunity for the formation of a culture of "green" consumption in the future [2].

DISCUSSION

Integrate education not on academic subjects, but on "eco-education" topics. STEAM-education combines interdisciplinary communication and design methods, which are based on the integration of natural sciences into technology, engineering and mathematics. At the same time, training for engineering-related professions is being researched to improve the eco-education mechanism.

Apply scientific and technical knowledge in the world in real life. STEAM - with the help of practical exercises in education, students are shown the use of scientific and technical knowledge in real life. In each lesson, students develop, construct, and develop modern industry models, and model development allows for the development of new methodological approaches. Therefore, it is important to improve the didactic support of students to increase the effectiveness of eco-education. In today's developed countries, the STEAM program develops critical thinking and problem-solving skills needed to overcome the challenges children face in their daily lives, helping students develop aesthetic attitudes and practical skills.

At the same time, informatization of education, which is one of the priorities of the process of informatization of society, places new demands on the professional qualities and level of training of future primary school teachers, methodological and organizational aspects of using information technology. information and communication technologies in education [3].

The future teacher should be ready to use modern information technologies in the process of ecological education of young students, which in turn will help to form the following competencies: general cultural, as a result of which the student will be exposed to modern natural can use the knowledge of the scientific landscape in educational and professional activities, apply methods of mathematical processing of information, theoretical and experimental research; ready to use the basic methods, techniques and tools of obtaining, storing, processing information, ready to work with a computer as a means of information management; ready to use basic methods of protection against the possible consequences of accidents, disasters, natural disasters; understands the nature and importance of information in the development of a modern information society, is aware of the dangers and threats that arise in the process, can comply with the basic requirements of information security, including the protection of state secrets; the use of modern methods and technologies, including information technology, to ensure the quality of the educational process at a specific level of education of a particular professional educational institution, which allows the formation of training and skills; use the opportunities of the educational environment, including information, to ensure the quality of the educational process; it is necessary to develop and implement cultural and educational programs for various segments of the population,

including the use of modern information and communication technologies;

modern methods, including interactive methods of teaching technology in primary school; modern methods and technologies of studying the nature of the motherland in primary school;

modern methods and technologies of teaching the basics of ecological culture in primary school;

also apply knowledge of the theoretical foundations and technologies of the natural sciences in professional activities;

Knowledge of the theoretical foundations and technologies in the teaching of "natural" sciences based on the STEAM approach;

knowledge of the theoretical foundations and technologies of science education in the study of the motherland in primary school;

The STEAM approach to the "natural" sciences is based on the use of modern methods and technologies [4].

Given the modern requirements for the training of future primary school teachers, the introduction of information and communication technologies in the educational process in the subjects that serve the formation of environmental culture will become mandatory. In this regard, the following aspects of the use of information and communication technologies should be taken into account in the training of future teachers: The use of information and communication technologies in the teaching of various environment-oriented subjects with the integrated use of teaching aids.

One of the modern achievements in simplifying the learning process and increasing interest in it, the electronic interactive whiteboard provides a comprehensive use of the following textbooks: printed (textbooks and manuals, books for reading), anthologies, workbooks, atlases, handouts, etc.) in electronic form - Autoplay media studio, iSpringQuizMaker, etc.; e-learning resources (called multimedia applications, network educational resources, encyclopedias, etc.); audiovisual (slides, slide films, educational videos, educational films, educational films on digital media (Video-CD, DVD, BluRay, HDDVD, etc.); visual planar (posters, wall maps, murals).

Use of information and communication technologies by students in the design and creation of environmental education tools for young students. One of the main tasks of the educational process is to teach students to create teaching aids that meet the

requirements of a particular course. can be increased. educational process ”,“ Technical audio-visual teaching aids ”. This is done through Power Point, NeroVisionXtra The use of information and communication technologies in the design and creation of a system of tools for monitoring and evaluation of environmental knowledge by students [4].

One of the most effective ways to test students' knowledge is the Master Test service - the preparation of test materials using a universal program for creating and conducting tests. In preparing future teachers for the use of information and communication technologies in the process of environmental education and training, it is advisable to use a complex of teaching aids in the teaching of relevant subjects. An integrated approach to the organization and self-organization of independent educational activities in group, joint and individual classes in lectures, laboratory-practical and seminar classes, monitoring and evaluation of students' learning activities in the organization of independent extracurricular activities of students. educational activities, as well as in conducting self-monitoring and self-assessment. Power Point can be used to prepare lecture materials and create individual environmental projects by students; testing of students' knowledge can be done through the Master Test program.

Today, the mandatory requirement for the organization of educational activities in the process of training future teachers is the use of teaching materials. Ability to design and build an educational-methodical complex of the subject as a didactic system Design and implementation of the educational process through the information component of the educational process provided to the teacher in pedagogical software products, databases and teaching materials allows

In the process of teaching the natural sciences on the basis of STEAM approach, the main task of environmental education in general remains the formation of ecological culture of pedagogical students, creative acquisition of knowledge, development of intellectual culture, education of modern and responsible personality. mobile response to changes in the environment, forecasting, analysis of results, development of a culture of researchers capable of working in a computerized environment, development of operational, motivational and reflective readiness to use information and communication technologies in environmental practice.

CLEAR CONCLUSIONS AND PRACTICAL SUGGESTIONS

In conclusion, it should be noted that in the process of informatization of education, the priority of forming the ecological culture of future teachers is the transition from teaching the technical and technological aspects of working with computers to the correct formation of the content should be, the selection and proper use of educational electronic publications and resources. A modern teacher should not only have knowledge in the field of information and telecommunication technologies included in the content of computer science courses taught in pedagogical universities, but also be an expert in the application of new technologies in their future careers. In this regard, we reiterate the importance of informing environmental education.

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