

Preparation of future primary school teachers for the provision of informatics education

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Abstract: The article discusses issues arising as a result of the introduction of computer science in primary school, and some considerations as their solution, as well as proposals for the introduction of new academic disciplines in this area, with an emphasis on the content of the academic discipline "Information technology in primary school", which is currently held in pedagogical universities in the process of training primary education teachers.

Keywords: Information technology, computer science, higher education, primary school, academic disciplines, programming.

Introduction: The first article of the Constitution as amended states that Uzbekistan is a social state. One of the biggest areas in this direction is education. In order to consistently develop it, the Ministry of Preschool and School Education was created as part of the administrative reform. Measures are being taken to structurally optimize the system, introduce modern programs and stimulate personnel.

In this regard, President of the Republic of Uzbekistan Sh. Mirziyoyev A striking example is the acquaintance on May 22, 2023 with the presentation of proposals aimed at developing the system of preschool and school education.

The immediate result of this visit was the implementation of the project "Preschool President of the Republic of Uzbekistan dated May 26, 2023 "On measures for the effective organization of the activities of the Ministry of Education of the Republic of Uzbekistan and organizations included in its system" PF-79-sleep.

The establishment of such an order in order to bring preschool and general secondary education to a new level, improve its quality and improve educational programs, according to which, starting from the 2023-2024 academic year, it will be gradually aimed at increasing the financial literacy of primary and secondary school students. As a task, paragraph 2 of the Decree defines work aimed at introducing lessons.

It becomes obvious that the following issues directly related to teaching computer science to primary school students will be considered on the way to a positive and effective solution of the tasks set by the head of our government:

- the question of choosing a set of terms and concepts that are easily assimilated by primary school students;
- the issue of developing or forming a methodology for continuous, systematic formation of selected terms and concepts among students;
- development of a structure of educational activities aimed at teaching computer science to primary school students;
- development of psychophysiological, didactic and technical requirements for various pedagogical software used as a means of teaching computer science to primary school students;
- the issue of developing or forming a system of exercises and methods for their use aimed at teaching the elements of computer science.

In addition, one of the most important issues is the introduction of computer science into primary classes as a separate educational subject. The need to determine the feasibility of its implementation is revealed. You can leave the following comments on this question:

1. A computer science teacher who has undergone

appropriate methodological training in computer science in elementary grades should conduct classes.

2. A primary school teacher with relevant knowledge of computer science and its teaching methodology must teach classes.

3. Elementary computer science for elementary grades and computer science.

Currently, at the initial educational faculties of pedagogical higher educational institutions, the subject "Information technologies in primary grades" 120 in the amount of hours (60 hours of classroom classes), 60 hour of self-study).

The purpose of this subject is to ensure the development of professional training of primary school teachers, to build their information competence, to equip them with pedagogical knowledge, skills and skills necessary for the application of information technology in the process of teaching primary subjects.

Based on the goal, the tasks of the educational subject are formulated as follows:

- substantiation of the role of information technologies and giving the necessary recommendations in the process of teaching primary disciplines;
- justification of the need for regular updating of educational technologies in the process of teaching primary educational disciplines and differentiated approach, using criteria, ways and methods of using pedagogical and information technologies;
- formation of students' skills and abilities using promising teaching aids (multimedia applications of textbooks, electronic platforms, online software tools) and, based on them, the design and practical implementation of teaching technologies for primary educational subjects;
- to teach students to analyze, evaluate their pedagogical activities. Development of analytical, critical, creative and independent thinking skills, formation of information competence.

As can be seen from the content of the subject, in subjects conducted in the lower grades, more attention is paid to teaching with the use of information technologies in teaching aimed at expanding the horizons of students, deepening knowledge, enhancing the mental activity of children and developing speech.

But since computer science is being introduced in primary grades as a separate subject, it is necessary to revise the content of this subject from the point of view of ensuring continuity and continuity in teaching, or to start studying computer science and teaching methods in primary grades in higher educational institutions.

It is necessary to introduce new educational disciplines

aimed at forming the teacher's "inner class".

Based on this, we propose four interrelated training subjects that can be implemented:

1. Fundamentals of computer science and information technology;
2. Programming technologies;
3. The use of information technology in the educational processes of the primary class;
4. Theory and methodology of teaching computer science.

The basics of computer science and information technology make it possible to form system knowledge focused on the field of education, form the basic concepts, tools and methods of computer science, the basics of computer technology.

Within the framework of the educational subject "Programming Technologies," the study and implementation of the basic requirements for software focused on initial training, as well as the development and practical use of methods and methods of modern technology for their development are carried out.

The use of information technology in the educational processes of primary school includes the skills and abilities to use multimedia applications, electronic platforms, online software tools available in various textbooks.

Familiarization of a primary school teacher with the content of the subject of computer science in school education, its importance in preparing for a future profession, teaching computer science in primary education methodological and didactic forms, methods, as well as principles.

CONCLUSION

In conclusion, it should be noted that if these subjects are introduced into the higher education system, then it is necessary to revise the state educational standard of higher education, the classifier of directions and specialties of higher education and the established volume of study hours.

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