

Formation of the "Modern Audience" System of Teaching "Algorithm Development and Processing"

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Annotation: The article briefly describes the science of creating and processing algorithms, the formation of the system "Modern audience", the peculiarities of Wise technologies, educational-based approaches.

Keywords: Smart classroom, Wise technology, theory and practice, approach, traditional lesson, interdisciplinary, student, teacher.

The need to teach the subject "Design and development of algorithms" stems from the peculiarities of the current process, which is experiencing high speeds and fundamental changes in the field of structure and operation. WISE is about solving the problem of creating an integrated learning environment with the help of technology. The development of algorithms and the development of artificial intelligence have made it possible to create systems that ensure that the learning process is adapted to the learner. It can be concluded that most of the educational systems to be created in the future will depend on information technology and will retain the components of intellectual adaptation.

Based on the analysis of pedagogical research today, it should be noted that there are a number of problems that hinder the development of the educational process. In our view, the problems are mainly that they are not logically connected and systematized as a result of a general study of certain aspects and properties of the objects being studied.

An integrated approach plays an important role in overcoming such situations in practice.

The implementation of an integrative approach in the educational process can be carried out with knowledge of the internal and external relations of the system or the whole object of the existing form, the laws of its organization and management.

An integrated approach to the training of specialists is used to ensure the integrity of the knowledge, methods of action and personal qualities and qualities related to the specialty.

G.A. Pollak proposed the following for the system of continuing education "WISE - education" for students (schools, higher education institutions, corporate education) [103; 43-p]: flexible training programs, portfolio; more information about student activities; collaborative learning technologies - knowledge creation; independent access to the learning process through devices; transfer of many functions of human activity to computers; individualization of education to a new level.

VP Tikhomirov and NA Tikhomirova noted that "Modern audience -technology" in education includes the following [113; 15-b]:

1. Education Networks (Consortium of Electronic Universities);
2. Smart e-learning;
3. Quality of e-learning (E-matrix, standardization and certification);

4. Quick start.

One of the leading scientists of the Republic A.A. According to Abdukodirov, Smart technologies are technologies that are transferred to procedures based on interaction and exchange of experience, primarily based on information and knowledge. The main feature of "Smart" is the ability to interact and adapt to the environment. This feature has an independent value and can be applied to the city, university, education, technology, society and many other categories [47; 6-7-b].

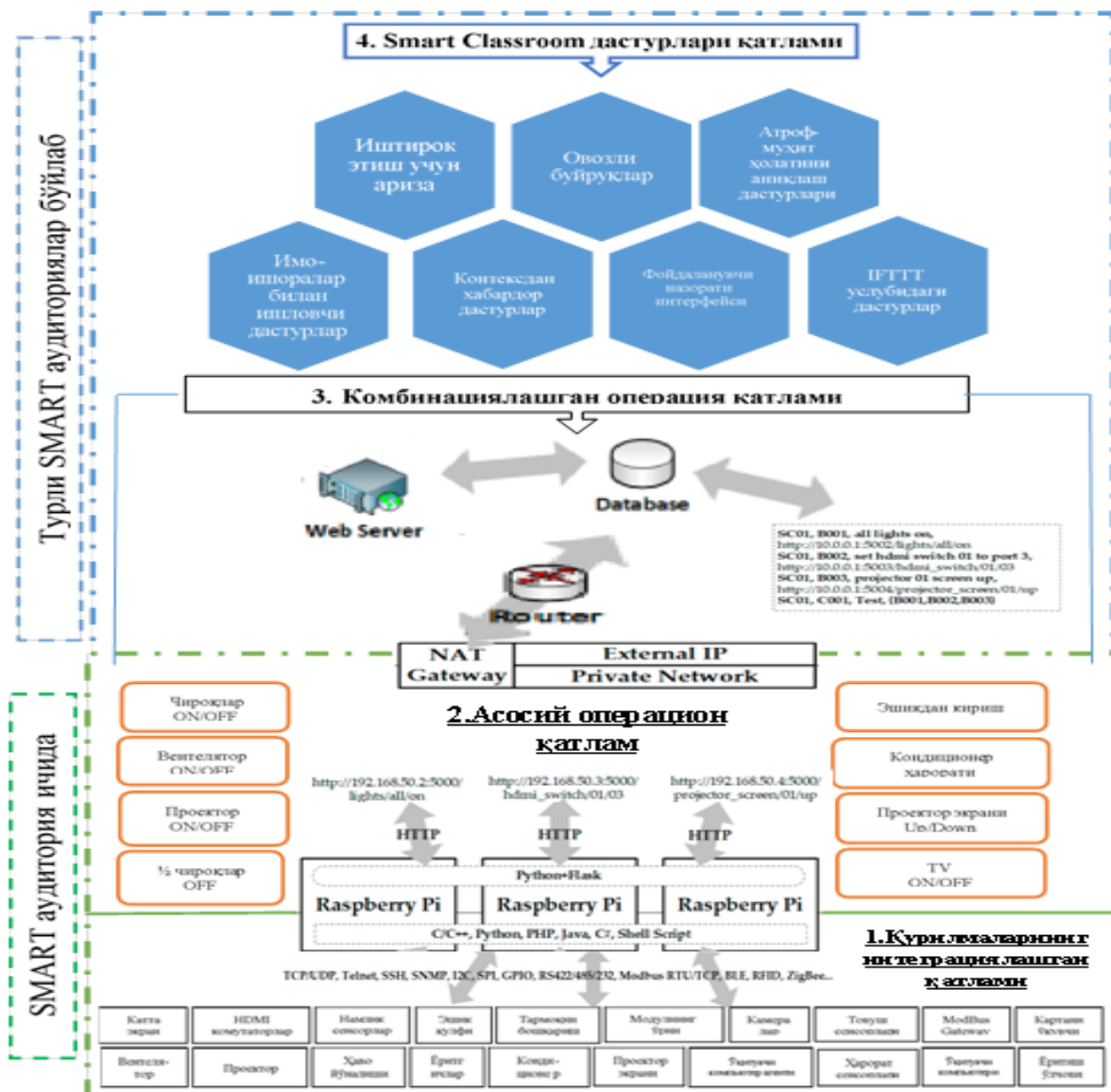
According to AA Abdukadirov, SMART is a feature of a system or process, which manifests itself in the interaction with the environment and is able to process the system, respond immediately to changes in the external environment, adapt to changing conditions, independent development and self-management, results allows you to do it effectively [68; 43-6].

In the field of education, SMART technologies mean: smart boards, smart learning manuals, smart projectors, software for creating and distributing e-learning materials of an interactive and communicative nature.

In Washington, DC, the BLACKBOARD (<https://www.blackboard.com>) system has created a system called the "Connected Learning Skills and Support Network" for K-12 and beyond. While the digital learning environment shapes person-centered learning, virtual classroom technology expands opportunities for collaboration. Special websites provide parents and students with information about the latest assessments, news, and activities. Blackboard Mobile Credential helps students register their student IDs from a special app on their iPhone and Apple Watch and pay for access to campus and meals and other services[139; 1-3-6].

In Weymouth, UK, the Magicard system produces a variety of smart cards for students. These cards are connected to student authentication control systems using IoT (Internet of Things). With the help of IoTs, students have access to and use various resources (coursework, electronic resources for distance learning, etc.), pay for various services [141; 1-2-6].

The methodology of teaching the subject "Design and development of algorithms" in the rooms controlled by the system "Modern audience" is aimed at solving the following problems: modeling the classroom with modern auditory elements; Development of a structure for combining the functions of smart devices with the methodology of teaching the subject "Design and development of algorithms"; setting conditions and restrictions for the effective use of this method. (See Figure 2.5)



2.5-painting. Integration model of smart-audience technologies

Introduction of ZTE multimedia system " Modern audience " at Tashkent University of Information Technologies, creation of " Modern audience " auditorium at Tashkent State University of Economics, transformation of Tashkent State Pedagogical University into "SMART University" in cooperation with Informascope of Turkey. being increased. A "SMART auditorium" is being organized at the Jizzakh State Pedagogical Institute.

Thus, the formation of a " Modern audience " of teaching the subject "Design and development of algorithms" expands the opportunities for personal development of the future specialist, forming in them the necessary creative potential. In this case, SMART-technologies and the "Internet of Things" (IoT Internet of things) serve as the main tools for teaching. It should be noted that in our country it is recommended to develop specific methodological recommendations based on the concept and research on the use of SMART-technologies and IoT-Internet in the education system.

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