

THE ROLE OF INFORMATION TECHNOLOGY IN THE DEVELOPMENT OF PERSONAL COMPONENT

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Abstract: this article highlights the role, theory and capabilities of Information Technology in the development of personal component.

Key words: science, skills and qualifications, competence, training model, Adaptive model, IT competence, professional competence, IoT, AI, 5G.

Introduction

The improvement of the training system of personnel in the field of information technology is one of the important conditions for the successful implementation of the strategy "digital Uzbekistan — 2030", the development of digital technologies and the widespread introduction into the daily life of the population.

Today, even in our country, measures for the development of the production of computer equipment and items, especially the development of digital educational resources, have been established as first-class tasks.

In the strategy of the president of the Republic of Uzbekistan "digital Uzbekistan-2030", PF6079 of October 05, 2020, the following tasks were set for the development of digital education.

1. Since January 1, 2021, system management, database and "Cloud" Platform Management by citizens, ensuring information security.

2. Development and approval of a plan for the gradual introduction of digital education mechanisms in higher education institutions.

3.Revision of professional standards of the educational system, taking into account the requirements for digital skills.

4.To provide opportunities for mastering digital skills by providing digital education at all stages of education, to include programming and Information Technology subjects from the 7th grade in the curriculum of secondary schools.

5.Development and approval of training programs for teaching digital education, programming and information technology with the study of international experience.

Currently, no industry can be imagined without information technology, as well as educational processes. At this point, let's talk about the role of Computer Science in the system of use of digital educational resources in teaching. It was as a result of the penetration of new technologies into the educational system and its removal to a new level that we all began to use the term "digital education".

Research methodology. In the current period, education cannot be imagined without information technologies, which is why we all began to use the term "new pedagogical technologies". One example is that a personal computer has completely changed the possibilities of Education. The Internet has provided even greater opportunities for the implementation of new pedagogical technologies in the laptops educational system. Reform of the educational system in the conditions of independence of Uzbekistan is primarily associated with the implementation of advanced information technologies in the educational and educational system.

It is known that information and communication technologies are associated with discoveries in the fields of microelectronics, computational techniques (hardware tools and software), electrology and antoelectronics-microprocessors, semiconductors and fiber-optic cables.

Analysis results. In the time when today's new technologies and information communications have developed, the role of Information Technology in the development of personal component is important . Therefore, in this article we will talk about the role of Information Technology in the development of personal component

1) Artificial Intelligence(AI): occupies an important level in the field of artificial intelligence, personal component. Artificial intelligence technologies make the role more easy to play in creating automated areas that interact interactively with the user. For example, Face id technologies, knowledge acquisition with ChatGPT technologies, mobile applications that serve people using AI, and other smart technologies.

2) 5G technology: this technology helps to ensure the rapid and efficient exchange of huge data of personal components. 5G technology allows users or learners to use the internet faster. Personal components provide users with a high level of comfort by connecting themselves together through fast internet sharing and interacting with other devices. This technology helps to ensure the rapid and efficient exchange of huge data of personal components.

3) VR and AR technologies: as we enter a world dominated by digital educational technologies, teachers and educators provide VR - an excellent opportunity from the top leaders of these technologies to develop personal component. VR allows teachers and educators to feel directions in different parts of the world without leaving the classroom. Advantages of using VR technologies in the professional component:

* VR provides more immersive experience than traditional teaching methods, and this allows for better knowledge retention

- Safe environment for experience: students can perform virtual chemistry experiments without any real risks.

- * Geographical location places will not be a problem at all, since those educated around the world can visit museums, laboratories and even other planets.

- Continuous professional development helps teachers to understand not only the technological aspects of VR, but also its pedagogical consequences.

- High student activity and interest. Interactive, gamified VR learning can have a significant positive impact on students. This activates them throughout the lesson and makes learning fun and hassle-free.

4) IoT (Internet of Things): IoT, represents the technology associated with the internet to each device. In the field of personal component, IoT holds an important role. Smart devices, smart homes, and smart clothing offer affordable and efficient information exchange to people. These technologies make life easier for people and allow them to make independent decisions.

Conclusion. In conclusion, it can be said that information technology occupies a large place in developments in the field of personal component, and the latest technologies offer effective and convenient opportunities for users. IoT, AI, VR and AR, 5G self-development, making personal components interactive, mental and safe. IoT and Smart technologies, with ease and efficient information exchange, provide users with new opportunities. With AI, automation is facilitated, and smart devices help to interact interactively with users. In the development of personal component, technologies are mastered, providing people with the latest opportunities

through new, mental and interactive interactions. These trends have led to an increase in the quality of personal components, aimed at improving themselves through new spirituality and effective technologies.

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