



INNOVATIVE APPROACHES IN INFORMATICS LESSONS

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We live in an era of modern technology where information technologies play an indispensable role; progress is unimaginable without them. As educators, we utilize these technologies during classroom instruction, thereby enhancing students' computer literacy and expanding their operational capabilities. The second stage typically involves addressing the most pressing and debatable issues of the time, encouraging an approach based on inquiry, critical thinking, and creativity. In the third stage, fundamental principles are introduced and explained in greater depth. The fourth stage provides material to facilitate feedback and interaction. The fifth stage assesses the students' understanding of the topics covered.

To effectively employ innovative methods in informatics lessons, the following guidelines should be observed: promptly expressing one's thoughts after observation; explaining impressions concisely, clearly, and without digressing from the topic; and being prepared to accept criticism, among others. New information technologies in education enable the enhancement of practical and laboratory learning outcomes, ensure objectivity in student assessment, broaden the scope of information, and facilitate the use of digital technologies. They allow for the implementation of lessons and laboratory work utilizing computer models—which can simulate events and processes in the micro- and macro-worlds, as well as replace complex internal mechanisms or expensive, rare educational equipment.

The software and methodological support for the informatization of the educational process involves several key areas of computer application: knowledge



assessment, the use of information and reference systems regarding educational materials, the utilization of various educational websites, and more.

Prominent examples of modern information technologies include systems such as videotex, teletext, and electronic mail. Computer technology is currently evolving rapidly, and virtually all sectors are becoming inextricably linked with it.

This places a greater responsibility on us, as educators, in the teaching of our subjects.

As evidence of this, our President Sh. We can cite the various laws and decrees developed by Mirziyoyev regarding the development of information technology as examples. A prime instance is the decision, effective September 2020, to eliminate paperwork and transition to maintaining all documentation—specifically class registers and student diaries—in electronic format. It is fair to say that this represents one of the initial steps toward a digital economy.

As informatics teachers, we must explain all of this not only to our colleagues but also to our students. We need to organize extracurricular activities with them and adopt an individualized approach to each student during the teaching process, explaining concepts patiently and thoroughly. This demands not only patience and great perseverance but also solid knowledge, skills, and a high level of professional competence.

It is well known that modern technical tools facilitate seamless remote communication, enabling both verbal and non-verbal interaction. Remote education relies on the use of modern computer and telecommunication technologies. Distance education enables the enrichment of both information and methodological educational resources.

To enhance the effectiveness of informatics lessons and ensure students acquire the necessary knowledge and skills, it is essential to develop educational



laboratories, equip them with state-of-the-art hardware, and widely implement virtual computer technologies. Key factors in the widespread adoption of virtual simulation tools include establishing information technology and distance learning centers within educational institutions; forming working groups comprising skilled programmers, designers, and experienced educators; defining laboratory systems; and acquiring necessary tools and software from advanced foreign educational institutions.

Today, we are developing at a rapid pace alongside other developing nations. In such a context, progress is unimaginable without information technology. Therefore, as informatics teachers, we must dedicate our utmost effort to providing students with robust knowledge. After all, the students we educate will become the unshakeable foundation of our country and grow into devoted citizens who serve its future. Our President Shavkat Mirziyoyev has directed the third of the "Five Important Initiatives"—aimed at the productive use of young people's leisure time—toward the development of the field of informatics.