THE CURRENT STATE OF EDUCATION IN INFORMATICS AND INFORMATION TECHNOLOGIES FOR STUDENTS OF THE 8TH GRADE OF GENERAL EDUCATION SCHOOLS

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Annotation

The article interprets such topics as the problems and problems that students face in the process of learning this subject, the transfer of new technologies and teaching methods to the educational process. Nowadays, it is appropriate to explain the importance of computer science and information technology to students and how they learn through charity events, textbooks and educational tools. The article also discusses the challenges in preparing students for this subject, how they relate to effective data use, and the importance of guidance and support for teachers and schools. The article is written on the basis of common international experiences, research and insights, and provides information on the current situation and the expansion of education.

Keywords: general education schools, informatics and information technologies, current state of education, knowledge and technology, teaching process, e-learning, internet resources, educational programs, new methods

Informatics and information technologies are one of the most important fields in today's world and are entering every sphere of society. For this reason, various innovations with the importance of education in Informatics and information technologies are being implemented in general education schools.

Although the current state of learning in computer science and information technology for 8th graders has developed in many ways, the nature and analysis of development in this area remain among the topics that need to be diversified in approaches.

Today, the main areas of study in computer science and information technology are:

Programming: Programming is one of the main areas of computer science and information technology. Students learn to write programs for computers and other devices by studying programming languages. This allows 8th graders to learn to analyze their own problems, solve problems with the help of programs.

Databases and Networks: This course allows students to learn how to create, store, edit, and search databases. Also, networks are one of the basic structures of the Internet. 8th graders learn how to use the internet and are required to understand the rules for keeping personal information safe.

Multimedia and Design: In Computer Science and Information Technology, multimedia and design are also important. This course allows students to learn how to create and edit images, videos, animations, and other multimedia materials. 8th graders are required to learn how to create, edit, and add effects to their own images, videos, and graphics.

Cyber Security: Cyber security is one of the most important issues in the field of information technology today. 8th grade students learn how to stay safe on the Internet, protect against viruses and hacking, protect personal information, and ensure safety when using Internet resources through the study of cyber security.

The current state of education in computer science and information technology in secondary schools is aimed at teaching students the basic approaches of this important field. This will help prepare 8th graders for their growth in new technologies, computers and the Internet, develop their independent work skills, and prepare them for future use in the field of information technology.

Education in computer science and information technology is concerned with fields that involve changes and developments around the world, and focuses on the study and use of technologies that are updated every day. This science education is important to meet the demands and demands that the modern world is placing on students.

8th grade students' studies in computer science and information technology, teach them how to work with modern computers and mobile devices, understand the basics of programming, use the Internet, use and analyze databases, and understand network and security issues contains z.

This requires learning based on the current state of science education, new experiences, technological equipment and developments in the field. In today's world, as changes and technological developments occur at a faster pace in the field of informatics, students need to update their knowledge and adapt themselves to new technologies.

Currently, 8th graders use several tools to learn computer science and information technology. These tools can be textbooks, interactive lessons, programs, videos, and online resources. Tutorials help students understand basic concepts, learn and practice programming languages. Interactive lessons and programs, giving students practice through an interactive environment, make learning more interesting and unique. Videos and online resources increase students' interest by showing them how to explain, experiences, tips and practice in the field.

In addition, teachers are now able to analyze, master and assess students with the help of technological tools. It helps provide students with an individualized learning plan, provides them with documentation and advice, and assesses student learning levels.

The current state of education in computer science and information technology focuses on students learning new technologies, applying their knowledge, and developing independent thinking and creative abilities. This helps them to engage with the modern world and ensure that students keep pace with the technological developments that will continue in the future.

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