

Formation of Information Technology in Uzbekistan

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Abstract

Taking into account that the development of information technology engineering is relevant today, the development and improvement of society has accelerated, the engineering task of exchanging information over the network is inevitable.

Keywords: IT (information technology), Information technology, ES, Digitization, computer, social networks, programs that perform mathematical operations, graphics, video, writing, information.

IT is an abbreviation of the words "Information Technology" taken from the English language, and in Uzbek it is called "Information Technology". Even so, we pronounce and use this word as IT.

Information Technology is a computing technique that performs tasks such as creating, collecting, distributing, storing, processing, and protecting information. Nowadays, the function of computer technology is performed by the computer, so when the word IT is used, computer technology is mainly understood.

When using the word IT, you should pay attention to one thing, never say "IT technologies", because if you write this sentence correctly, it will be "Information Technology" technologies, or in Uzbek o'girsak' appears in the form of 'Information Technology Technologies', which is a repeated word meaning.

We got acquainted with the theoretical information, so what can we associate with this word in life?

- During communication (social networks, messengers, e-mail, chat, ...);
- information (news, weather information,...);
- information again at work (math actions executor programs, graphics, video,
- the learning process (e-books, interactive lessons, manuals,...);
- leisure (movies, music, games,...).

So, our life is closely connected with this word. No matter what we do, even when we are relaxing, we can use IT services. Our simple mobile phone is also an IT device because we store some data on this device.

is related to computer technologies, every enterprise has separate IT departments, even in enterprises that have nothing to do with computers at all. So, there is great interest and demand in this field.

Information technologies are information management and processing technologies.

Computer technology is usually understood under this term.

Exposure to various information in the field of information technology and collection, storage, protection, processing, and transmission operations are carried out through computer networks.

are communication tools - telephone, teletypewriter, telefax, etc.

Although information technology has been present at various stages of human development, the characteristic feature of today's information society is that for the first time in the history of civilization, the effort spent on obtaining and producing knowledge is spent on energy, raw materials, materials, and material consumer goods. dominates the spending, that is, information technology is the leading place among the available new technologies is occupying

The information technology industry complex consists of computer, communication system, data warehouse, knowledge warehouse and related fields of activity.

Today, information technology can be conditionally divided into "preserving, rationalizing, creating" types. Technologies of the first type save labor, material resources, and time. Examples of rationalizing information technologies include ticket booking and hotel accounting systems.

Creative (creative) information technologies consist of systems that produce information, use it and include a person as a component.

The modern development and achievements of information technologies show the necessity of informatization of all spheres of science and human activity.

Informatization of the society is understood as the use of information as a wealth of the society, which ensures the development of the economy, the development of the country's science and technology, and the acceleration of the processes of democratization and intellectualization of the society.

In fact, informatization of society is considered an objective process related to increasing the role of intellectual activity in all aspects of human life.

serves to improve the standard of living of the people of our republic, to satisfy social needs, to increase the economy and to accelerate scientific and technical development .

The public information process can be divided into 5 main directions:

- Cocktail, technological and complex production process tools automation.
- Scientific research, design and production information.
- Organizational and economic management information.
- Education and informing the personnel training process.

The help of the computer system is considered very important in acquiring knowledge, that is, in mastering certain types of information. The role of computer technology in the collection, storage, processing and use of information, regardless of how it is expressed, is determined by:

First, the use of new information technologies in teaching accelerates the learning process compared to the standard (traditional) system, increases the student's interest in science, increases their creative activity, facilitates a differential approach to education, repetition, consolidation and control of acquired knowledge. makes the student the subject of the learning process.

- Secondly, fro new information technologies It can be used in the educational process in the following forms:
 - computer in teaching certain subjects classes;
 - computer lessons - visual material as;
 - group and frontal work of students in organization;
 - scientific research of students in organization;
 - of students from reading empty times right organize to do issues solution in reaching and etc

The further increase in labor efficiency and raising the level of productivity is huge reception of large multimedia information (text, graphics, video images, sound, animation) can be achieved only

on the basis of the use of new intellectual tools and human-machine interfaces.

If there are not enough pictures of increasing labor productivity in informatics, the productivity growth of the entire national economy may be significantly reduced.

Today, about 50 percent of all workplaces in the world are provided with information processing tools.

Informatization of society, provision of new information technologies plays an important role in meeting people's need for various information.

a person lives in the world of information, he refers to a lot of evidence and numbers in order to find the scientific answers to the complex questions arising from his life, to establish the interrelationship of events, processes, mutual relations and essence.

Thanks to information, theory is combined with practice. The theory of practice cannot exist or develop without practice.

The main goal of the production is not to think about the importance of information technology tools, but to have an understanding of the methods and means of meeting the information needs of the society.

This need will always exist and is satisfied within the framework of any informational environment. The concept of "informational environment" occupies an important place in the study of informatics issues today. The environment that surrounds humanity is different according to its services - natural, political, social, national and to be family spiritual possible Studying the transformation of information into knowledge is of great importance in understanding the nature of the information environment. At first glance, they seem to be the same, but in a deeper study of their relationship that information has the characteristic of connection between communicative "other means" of knowledge.

In society, the factor of communication between people, the "bridge" between departments is information. Therefore, the mechanism of turning knowledge into information "for itself" occupies a special place in creating an informational environment. In ancient times, the informational environment was very poor, it consisted of the most necessary and limited set of information in a narrow range, which has been limiting the scope of communication between people for thousands of years and reducing the contribution of a person to the informational environment of society.

Today, the complex of social information in various forms is wide and developed, and its place in society is incalculable.

The information environment has undergone major changes in recent times. These changes create the need for paperless technology. This, in turn, causes a wider development of EHM. In order for the role and importance of the information environment in human life in the future to be much higher than the current situation, it is necessary to expand the scope of the tasks to be performed.

With the introduction of informatization in our republic, every citizen in it has the opportunity to receive it at the right time, in the right amount, and in the right quality. Enterprises, organizations and institutions belonging to regions, cities, districts in our republic are equipped with modern computer equipment, and they are able to transmit and receive information using special devices (telephone network, modem, etc.). The expansion of a person's range of thinking in economic, ecological, political and other fields is the reason for the qualitative and quantitative change of the information environment, the emergence of an information environment with a new character.

So, informatization is not a temporary study, but a necessary tool for development the state of the information environment at the current level of development cannot be supported without informatics. Fast, high-quality data collection, storage, processing and making sure that the service of computing is unmatched in performing tasks such as transmission. Changes in the management of the economy, the transition to market relations, the organization of accounting and has a great influence on delivery. The transfer of accounting to international systems is being carried out,

which requires the production of new forms of its methodology. Accounting information system and the traditional forms of organization of its computer production have undergone great changes. To learn objective assessments of the company's financial situation from an accountant, to master financial analysis methods, to know how to work with securities, to justify investments of funds in market processes and others demand will be done.

There are **internal** and **external factors** that determine the creation and development of information technology the following:

- Internal factors.
- External people.

Internal factors are types of information appearance, properties, performing various actions with information, its aggregation, transmission, storage, etc.

External factors mean the implementation of various tasks with information through technical and hardware means of information technology.

Information technology is one of the most important factors of rational use of society's information resources and has gone through several stages until now.

- 1 **stage** . It lasted until the second half of the XIX century. At this stage, "hand-held" information technologies are advanced. Its medium is the printing press, book communication, i.e. communication from person to person or through mail.
- 2 **stage** . At the end of the 19th century, "mechanical" technology developed. His main tool is a typewriter and arithmetic meter consists of
- 3 **stage** . Belongs to the beginning of the 20th century and differs from "electromechanical" technologies. As its main tool, the telegraph and phones are used. At this stage, the purpose of information technology also changed. In it, the main emphasis is on the formation of its content from the form of information description will be moved.
- 4 **stage** . By the middle of the 20th century , it was determined by the use of "electronic" technologies. The main tool of this technology is EXMs and automated management systems and information retrieval based on them systems.
- 5 **stage** . It corresponds to the end of the 20th century . At this stage, computer technology advanced. Their main tool is personal computers with different software tools for different purposes. At this stage, daily life, culture and there was a change of technical means intended for other fields. Local and global computer networks are used started

In short, in the "Information Age" of the 21st century, it is impossible for us to lag behind the development. Nowadays we are digitizing almost all systems, we are achieving all this because of IT. If we do not have enough knowledge in the field of information technology , it is self-evident that we are lagging behind the times and development. Digitization has permeated every industry. Therefore, regardless of which field we represent, we must have an understanding of EHM, and it is absolutely necessary.

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