

THE ROLE AND IMPORTANCE OF INFORMATION TECHNOLOGIES IN
EDUCATION

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Abstract: It is known that information and communication technologies are related to discoveries in the fields of microelectronics, computing (hardware and software), electronic communications and antoelectronics-microprocessors, semiconductors, and optical fiber cables. These discoveries allow the development and storage of vast amounts of information and their rapid distribution through communication networks. Connecting computers and configuring them to communicate with each other allows creating a new powerful technological system, network information systems using a common protocol. They connect people, their homes and offices and develop and execute a huge number of tasks in a very short time. This will fundamentally change the nature of information use and the structure of communication. At the same time, computer networks allow communication with all points of the Earth. For the educational system, it creates new opportunities for communication between teachers and students.

Key words: Technology, ICT, hardware, software, business environment, human capital.

The word technology, when translated from Greek, means art, mastery, skill. In technology, technology means a process that uses a set of methods, methods and tools to produce a certain desired material product. Technology changes the initial state of the object to a state that meets a new, predetermined requirement. For example, it is possible to obtain cottage cheese, cottage cheese, sour cream, oil and other dairy products from milk through various technologies. If information is received as the initial raw material, only the information product can be obtained as a result of processing this information. In this case, the meaning of the concept of "technology" is preserved. But the word "information" can be added to it. This fact determines that as a result of information processing, only information can be obtained, and not a material product.

The technology can be described as follows. Technology is the management of processes aimed at creating artificial objects. How well the conditions are created to ensure that the necessary processes go in the desired direction indicates the efficiency of the technology. Here, natural processes are controlled not only to change the composition, structure and form of matter, but also to process information and generate new information. Therefore, information technology can be described as follows.

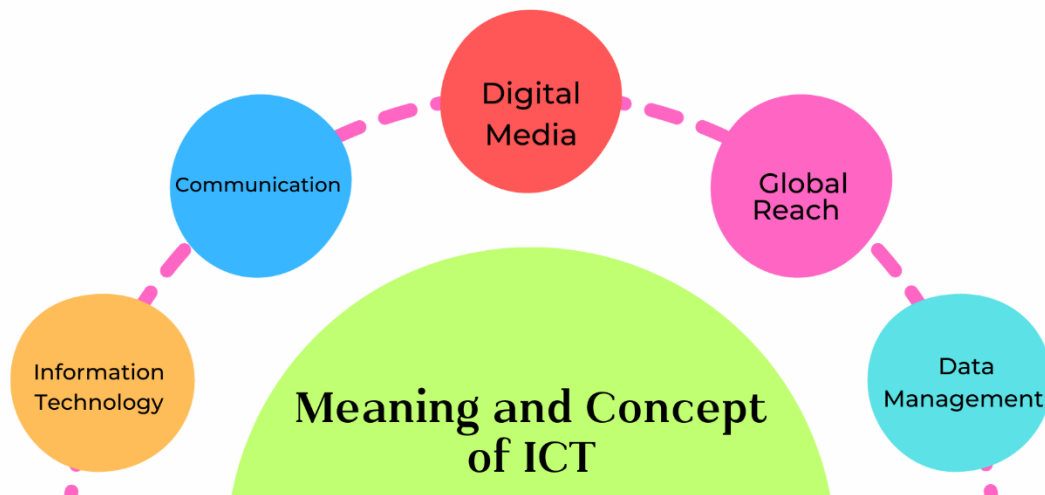
Information technology is the process of using a set of methods and means of collecting, processing and transmitting information, bringing information from one form to another, qualitatively new form.

The purpose of material production technology is to produce a new product that satisfies human needs. The purpose of information technology is to produce new information that is necessary for a person to perform a task, to analyze it and make a decision based on it. Using different technologies, different products can be obtained from the same material resources. The same can be said about information technology. Example: when performing a control task in mathematics, each student uses his knowledge to process basic information. A new information product that is a solution to a problem depends on the technology and method of solving the problem chosen by the student.

Information technology is one of the most important methods of intelligent use of society's information resources and has passed through several evolutionary stages until now.

The word "digitalization" is actually a new term, which refers to the involvement of IT solutions in the process of innovative management and administration, and as a result, the use of information technologies in all systems, from Internet of Things to e-government. .

Undoubtedly, the effectiveness of the digital economy is influenced not only by the coverage of information technologies and the availability of infrastructure, but also by standard economic criteria such as the business environment, human capital, and successful management instruments. Therefore, economic development relies on them, which means that these criteria are as important as before in the development of the digital economy.



Today, companies, both old and new, use IT tools to create new services and business models around the world, creating strong competition for leading companies in most industries.

The following are indicated as the main conditions and factors for gradually entering the path of social and economic development:

- implementation of electronic government and digital city concepts due to informatization and integration of public administration bodies and municipal services;
- new technological generation products gross work release (pilotless cars and others like);
- to himself special decoration and construction materials using " smart " and ecological houses set up to do about ideas done increase _
- outsourcing , self - employment _ and others through of employment alternative forms wide promote to do
- certain tasks perform for freelancers to look for service professional networks that do Create .

As you know , information technologies now each one to the field his own possibilities , modernity with come in is going And that's it in the fields exactly information technologies because of in an emergency changes , fast developments is happening These account received without this in the article information in technologies the most main directions and this in the direction activity take going experts , they types , tasks about briefly information to give movement we do

This article information technologies to the field now step throwing young to experts , that's it field and field of specialists potential to customers useful to be can _

Usually each one field his own small from directions organize found will be For example , education in the system mathematics , physics , history . Health in storage stomatology, gastrology. In these directions many similar parts with together, they between very big them from each other separate standing , each other place fill in can't get important attributes there is . Information technologies in the field as well so directions being , this directions from each other they are intended technologies , tasks , development stages with separate stands _ So below information technologies of directions the main ones comments with cause passed :

Frontend - application , program or web on the site either verstka either javascript programming language or if programmed without a tongue known one task executor and basically simple user with directly each different kind of things in execution mediator , communication divisor direction _ In this direction basically on the Internet each different services is created . This is the field representatives basically they work " on the client side (browser)" . They usually use HTML, CSS, JavaScript, JQuery , Angular.js, React, js .

Bekend (backend) - or web technologies . of this direction main task from users indirectly information acceptance do , re work , save and on demand looking again again from sending consists of , i.e this direction representatives are also on the Internet each different services they create They use PHP, Python, Java, JavaScript (Node.js), C#, MySQL, PostgreSQL on the server side of projects work , code they write Theirs works simple to users is not visible .

Applications - or mobile programs Create . This is the direction specialists smartphone , tablet such as devices for mobile applications they create At this time basically 3 main ones operational system for app is created . These are: Android, IOS and Windows Phone. This is the direction representatives own applications a lot in cases Java, Object-C, Swift, C# and some cases Using JavaScript (Cordova, React Native). to the world they bring

Also known as design _ has been this direction sites , mobile applications , logos , interfaces , etc different internet service for designs from creating consists of This is the direction specialists they are called designers .

Systematization - information in technologies the most important from the direction (specialty) . one _ In this direction working specialists servers , data warehouses , each different kind of networks , security systems create , manage , them support with are engaged .

Testing is _ of direction task something one product or the service to the customer from delivery before him from checking consists of This is the direction representatives programs , mobile applications , sites check - testing with busy will be They are some cases projects of beneficiaries high , many numerous to your requests tolerance is determined and checked .

Telecommunications - internet, television , radio and phone , that is in general telecommunications field . In this direction mobile contact field example by doing show can _

Programs - simple computer for program , software supply Create . This is the field representatives software supply Create with are engaged in , different games they can also create . Theirs projects directly with the internet not working.

Management - that is management _ This is the direction each one the project right to be planned , it done increase with directly depends is , how exactly what the project is " like " or " unlike " . that's it direction representatives straight away depend _ They are each different direction managers : company project managers, products managers , they people management they can _ projects management they can _ business processes management can _ They are basically project for partially

or Entirely responsible will be They are important decisions acceptance they do , hand under them another direction experts manage them _ right direction they give

Marketing - PR , advertising , marketing, search in systems projects distribution , development with are engaged . Product or the service in the market introduce , develop , need if , work issuer or service pointers with simple users or customers between intermediary are also

Trade is a product or services sell with engage in Each _ service , project , business of the process main joint being , this in the direction activity take the visitors main duties product or service for customers find him _ to customers sell is considered

Analytics is it of analytics each different : system analytics , information analytics , business analytics and others _ This is the direction representatives company product or services constant respectively checking go , company activity take going the market , the company competitors watching to go , necessary time of the company in charge to employees product or care on the surface necessary analytical information deliveries need will be Own in turn this data product or company showing the service develop it the fate of the company next prospective plans make up for main source being service does

Content is content with engaged in specialists . For example : copywriters , authors , journalists , translators , content managers and others

Others are above directions about was not The only condition is this affairs information technologies about to be need



Information technologies one how many to species divided into :

1. To the data processing giver information technologies . They are known algorithms according to initial to information processing giver issues to solve intended . For example , one in the firm his own employees about to information processing giver information technology of course to be need .

2. Management information technologies . Theirs purpose the work activity decision acceptance to do with depends has been of people to information has been demand from landing consists of Management information systems of the organization past , present condition and the future about information.

3. Office (office) of information technology .

Automated of the office modern information technologies this is an organization inside and out environment with communicative processes computer networks and information with working another modern tools based on organize reach and from cheering consists of for this special software tools even work developed . Of them one is Microsoft Office programs is a package . His Word text _ editor , Excel electronic table , Power point presentation for graphics training program, Microsoft Access data warehouse manage systems enters .

Current at the time computers for many software tools they exist all kind of information technologies provide takes .Theirs some of them with briefly getting to know we go out

Information warehouse . War how information of technology mandatory component data is a warehouse (MO). Automated MO of the firm in the office work release system about all information on it keeps MO, him organize to do and manage about more in Chapter 10 getting to know we go out

Text processor . It's textual documents organize reach and to them processing to give intended software tool is the type . For example , text in the editor prepared letter and documents constant respectively acceptance to do to the manager in the firm the situation always control under to fill help will give .

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